

SHORT FORM CATALOG



We Are Looking Out For You

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ATTENTION

- Not all voltages, configurations or packages are shown. Please consult factory for more information.
- All devices, with the exception of those contained within the Modules-Components and Modules-SurgeBuster sections are Lead-Free, ROHS compliant. These products are designated as “lead free” and meet the requirements of the European Union’s restriction on the use of hazardous substances in electrical equipment as stated in (RoHS) direction, 2002/95/EC. ProTek Devices defines “lead free” as products that are compatible with current RoHS requirements for the 6 “banned” substances: Lead (Pb, <1000ppm), Cadmium (Cd, <100ppm), Mercury (Hg, <1000ppm), Hexavalent Chromium (Cr6+, <1000ppm), Poly Brominated Biphenyls (PPB, <1000ppm), Poly Brominated Diphenyl Ethers (PBDE, <1000ppm). This includes the requirements that lead not exceed 0.1% by weight in homogeneous materials.
- The following packages are REACH Compliant: Axial Leads, DFNs, DIPs, Flip Chips, MSOPs, QFNs, SCs, SODs, SOICs, SOTs and VSIPs
- Standard Tape & Reel Nomenclature
 - -T7 for 7" Reels, i.e., PSOT05-T7
 - -T71 for 7" Reels 1,000 pieces per reel, i.e., ESD4-LFC-T71
 - -T73 for 7" Reels 3,000 pieces per reel, i.e., ESD4-LFC-T73
 - -T13 for 13" Reels, i.e., SM8LC05-T13
 - -TS for sample size Reels, i.e., SM16LC05C-TS

Not all products are available in 7" or 13" reels. Quantities per reel vary depending upon package size. Please consult product datasheet or the factory for ordering information regarding a specific part series. All datasheets can be found on ProTek Devices website: www.protekdevices.com

Do not put products into life support systems without written consent from the factory.

Cover photograph by Rakesh Kansal ©2010

ALPHANUMERIC - INDEX

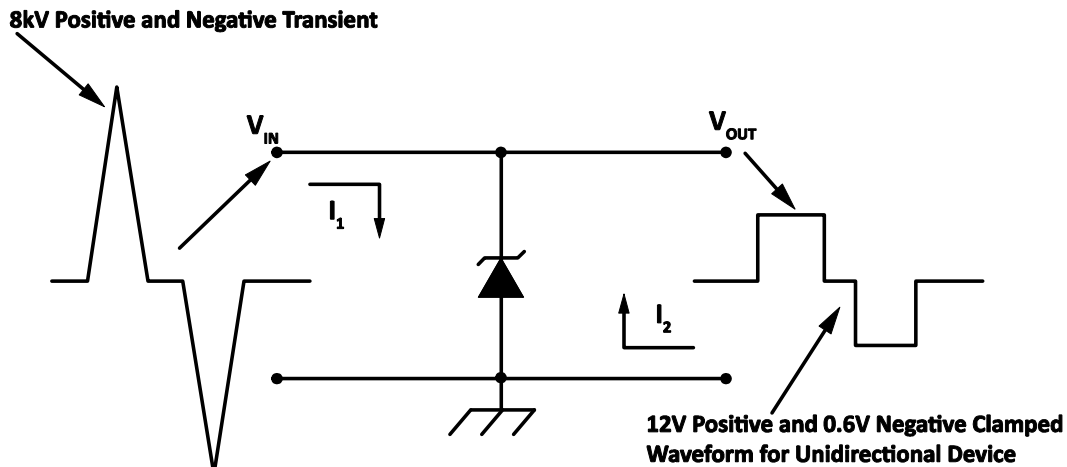
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UNIDIRECTIONAL TVS DEVICE SELECTION PROCESS

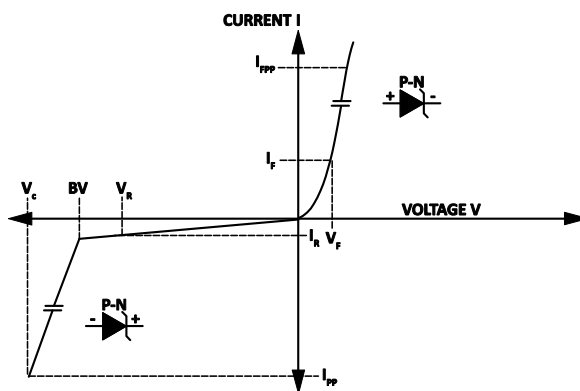
TVS Clamping Characteristics



Unidirectional TVS



Avalanche Junction TVS VI Characteristics



Symbol

BV
IR
VR
VC
IPP

Parameter

Breakdown Voltage
Leakage Current
Reverse Stand-Off Voltage
Clamping Voltage
Peak Pulse Current

SELECTION PROCESS

TVS Parameters

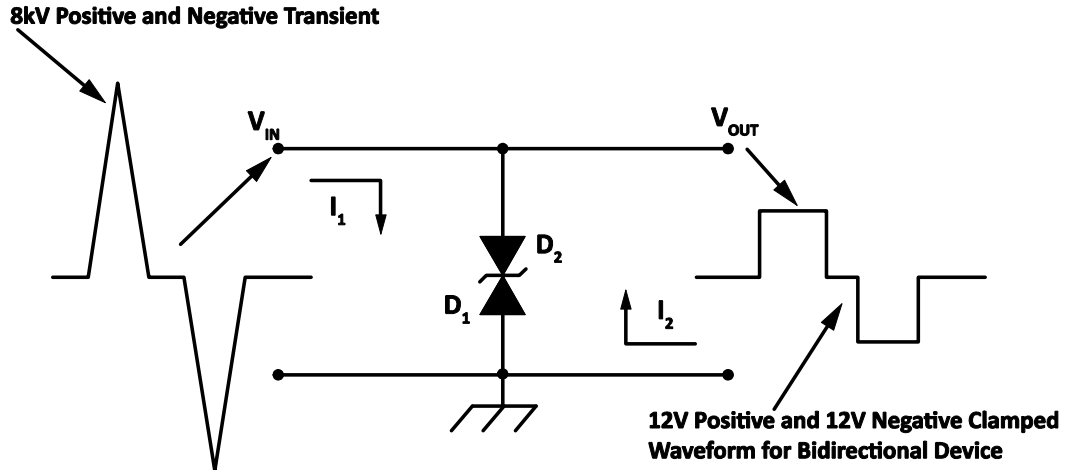
Stand-Off Voltage (V_R) \geq
Peak Pulse Current (I_P) \geq
Clamping Voltage (V_C) \leq
Input Capacitance of the Device \leq

Application Parameters

Operating Voltage (V_{OP})
Transient Current (I_T)
Voltage Withstand Level (V_{WS})
Acceptable Line Loading for Functional Pass

BIDIRECTIONAL TVS DEVICE SELECTION PROCESS

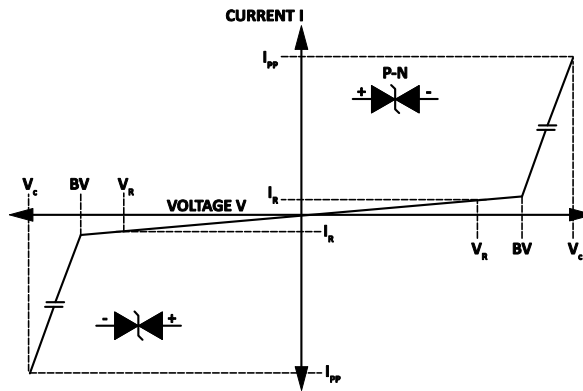
TVS Clamping Characteristics



Bidirectional TVS



Avalanche Junction TVS VI Characteristics



Symbol

BV
IR
VR
VC
IPP

Parameter

Breakdown Voltage
Leakage Current
Reverse Stand-Off Voltage
Clamping Voltage
Peak Pulse Current

SELECTION PROCESS

TVS Parameters

Stand-Off Voltage (V_R) \geq
Peak Pulse Current (I_p) \geq
Clamping Voltage (V_C) \leq
Input Capacitance of the Device \leq

Application Parameters

Operating Voltage (V_{OP})
Transient Current (I_T)
Voltage Withstand Level (V_{WS})
Acceptable Line Loading for Functional Pass

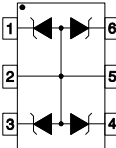
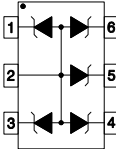
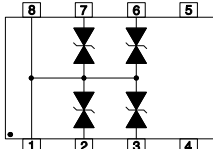
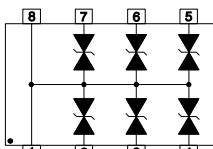
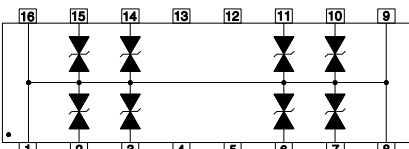
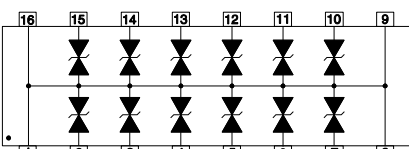
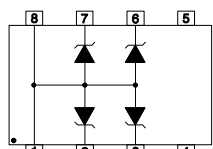
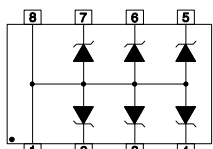
PROTECTION DEVICE SELECTION BY APPLICATION

APPLICATION	TYPICAL INTERFACE	PREFERRED PART	OPTIONAL PART
Computer Systems <ul style="list-style-type: none"> o Desktops o Notebooks o Servers o Routers o Switches o Hubs 	USB2.0	PLR0502, SR2.8	ET724, USB208
	FireWire (IEEE 1394), Camcorder	GBLCxxC Series, PLC497	PLR Series
	10/100/1000 Base T Ethernet	GBLCxxC Series, SLVDA2.8LC, SLVU2.8	ET724, SRV05-4
	Video (DVI, VGA, HDMI)	PLR0504, SRV05-4	ET721, ET724
	Audio	PKFCxxC Series, PRSB6.8C	USB004
	Modem, ADSL	PP-SM Series	PSR05, USB004
	Hard Drive (IDE Bus, SCSI, SATA, eSATA)	SMDAxxLC Series, ULC0402FC Series	PMMAD Series
	Serial Port (RS-232, RS-422)	PSOTxxC Series, SMFxxC Series	PSDxxC Series
	Parallel Port (IEEE 1284)	SM16LC Series, U0402FC Series	PMMAD Series
Battery/Charge Connector	PSMF Series, SMFxxC Series, PSD Series, PSD05HP	PLW Series	
Set Top Boxes <ul style="list-style-type: none"> o Digital Satellite Receiver o Digital Cable TV Converter o DVR o Internet TV 	USB	PLR0502, PLR0504, ULC0402FC Series	USB004, USB208
	RF In/Out	PLC497, SLVU2.8, ULLC0402FC Series	GBLCxxCI Series
	Ethernet	GBLCxxC Series, SLVDA2.8LC, SLVU2.8, SLVU2.8-4, GBLCxxCI Series	ET724, SRV05-4
	Video	GBLCxxC Series, MSMF05LC, VSMF05LC, VSMF05LCC	USB004, USB208
	Audio	PSOT Series, ULC0402FC Series	USB004
	I/O Port, Smart Card RS-232, Keyboard	MSMF05LC, ULC0402FC Series	PSOTxxC Series
	Front Panel	U040xFC Series	ESD4-DFN
	XDSL	GBLCxxSeries, PP-SM Series	
Mobile Devices <ul style="list-style-type: none"> o Cellular Phone o Personal Digital Assistant o Cordless Phone o Digital Camera/Camcorder o MP3 o GPS o Gameboy/Playstation/X-Box 	LCD Display	ESD4-DFN, EMxD-100xx Devices	
	Keyboard	RSB6.8S, MSMF05LC & MSMF05LC VSMF05LC, VSMF05LCC	ESD4-DFN Series
	Side Buttons	VSMF05LC, VSMF05LCC, U0402FC Series	DSOT05C
	Microphone, Earphone	ULC0402FC Series	PRSB6.8S
	Memory Card	MSMF05, SRV05-4	ULC0402FC Series
	Edge Connector	ESD4-LFC, MSMF05C, SFC05-4, VSMF05LC, VSMF05LCC	ET724, USB04xx Series
	Battery/Charge Connector	PSD Series, PRSB6.8C	PLW Series
	RF Modules	GBLCxxCI Series, GBLCSC Series	ULLC0402FC Series
	USB, USB-OTG	PSR05, PLR Series	PRSB6.8S
	FireWire (IEEE 1394), DVI	GBLCxxC Series, PLC497	PLR Series
Telecom & Datacom Equipment	SDH/ATM/Sonnet Copper Connection	PLC01-6, PLC03-3.3, SLVDA2.8LC SLVU2.8-4	GBLCxxC Series, SMLCxxC-2 Series
	10/100 Base T Ethernet	PLC01-6, PLC03-3.3, PLC03-6 PSRDA-4 Series, PSRDA-6 Series, SMDAxxLCC Series	MMAD Series, PMMAD Series, SMLCxxC-2 Series, SRV05-4
	1000 Base T Ethernet	PLC03-3.3, SLVDA2.8LC, SLVU2.8-4	DALC112S1, ET721, ET724, SRV05-4, USB208
	T1/E1, T3/E3,	PLC01-6, PLC03-3.3, PLC03-6	SMLCxxC-2 Series, USB004, PSRDA-x Series
	xDSL	GBLC Series, GBLCxxC, PP-SM Series	PUSB6B, SRV05-4, USB004
	Wireless LAN, Wireless WAN	ULLC0402FC Series, PSLC Series, SLVU2.8-x Series	
	Power Supplies	PSD Series	SM3K & SM5K Series
Communication Base Station	AC Power	SM3K, SM5K Series, 2700SM78CA	15KPA Series, 30KPA Series
	DC Power	SM3K, SM5K Series, 2700SM78CA	15KPA Series, 30KPA Series, 704 Series, GPZ Series
	Data Communication	GBLCxxC Series PLC01-6, PLC03-3.3, PLC03-6	SLVU2.8

PROTECTION DEVICE SELECTION BY APPLICATION

APPLICATION	TYPICAL INTERFACE	PREFERRED PART	OPTIONAL PART
Aviation/Military	Sensor Lines	15KPA Series, 30KPA Series	
	Control Lines	GBLCxxC Series, PLC01-6	GBLCxxI Series
	Power Supply	15KPA Series, 30KPA Series, 704 Series, GPZ Series	60/90KS Series, PHP/PIP Series
	Communication	GBLCxxC Series, DLZ Series, SMP6LCxx-2P Series	SLVU2.8-x Series
Automobile	Ignition	15KPA Series	PSOT Series
	Fuel Injection	15KPA Series	
	Car Stereo, GPS, Display	GBLCxxC Series, PSOT Series, STF701	ET721, ET724
	Instrumentation, Dashboard	PSD Series, PSOT Series, SM16xxC Series	PSOT Series, PLR Series
	Automatic Braking System	PSD Series, PSOT Series	PSLC Series
	Air Bag Sensor	PSD Series, PSD05HP	PSLC Series
	Automotive Checker Circuits	SM3K Series, SM5K Series	PSDxx Series
	ECU - Electronic Control Unit	GBLCSC Series	PSMF Series
	RKE	PSD Series	
Test & Measurement	GPIB/VXI Bus	PSRDA-4 Series, PSRDA-6 Series, SMDAxxLC Series	ET721, ET724
	RS-232, RS-422	PSOTxxC Series, SMFxxC Series	SM8LC Series, PSM712
	USB2.0/1.1	PLR0502, PSR05	PLR0504
	RS-485, Ethernet (Intra-Building)	485ELC, CX12LC, PSM712	PLCDAxxC Series, SM8LC Series
	Sensors	PLC497, SLVU2.8	ET724, USB208
Medical	Display	ULC0402FC Series	
	Touch Screen	SMF05C	
	Infusion Pump	PSDxxC Series, SLVU2.8, U0402FC Series	SMFxC Series, SMS Series, SM14 Series
	Power Supply	15KPA Series, PIP Series	
	Sensors (Electrodes)	SMFxC Series, SMS Series	ET724, USB208
	Control	GBLCxxC Series, SLVU2.8	ESD4-DFN Series
	Defibrillator	SMFxxC Series, ESD4-DFN Series	ET724, USB208
	Wheel Chair	15KPA Series, 30KPA Series	
Industrial Controls	AC Power Line	15KPA Series, 30KPA Series, 587BLP Series, 587BLPE Series, PHP/PIP Series	
	Control/Monitoring	232B/E, 422B/E, 485ELC, CX12LC Series	
	Sensors (Max & Low Voltage)	PLC496, DFN6-36	ULC0402FC Series
	4-20MA Control Loop	420E Series	
Homeland Security	Sensor/Detector	GBLCxxC Series, PLC497	SRV05-4, PSR05
	X-Ray Scanner	GBLCxxC Series	PLR Series
	Data Communication	DLZ Series	VSIP Series
	Power	15KPA Series, 30KPA Series, 704 Series, GPZ Series	PSD Series, PSOTxxC Series
Point of Sale	Modem	PP-SM Series	PLC03-3.3, USB208
	Card Reader, Printer	SMDAxxLC Series	SM16 Series
	RS-232, RS-485	PSDxxC Series, PSOTxxC Series	PSM712
Other Applications			
Commercial Display	RS-232, RS-485	PSOTxxC Series, SM8LC Series	
Plotter/Printer	USB, Parallel	PUSB6B Series, USB208	PSOT Series
HDTV	Video, Buttons	GBLCxxC Series, PLR Series	USB004, USB208
Lightning Protection	Ballast	PP-SM Series	
Large Appliances	Power	PP-SM Series	
Electronic Toys	Control Keys, Charging Port	PSD Series, SFC05-4 PLW Series	ET724, USB208

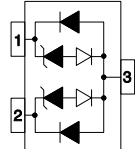
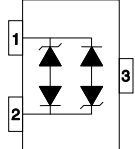
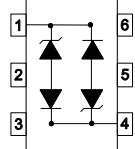
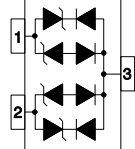
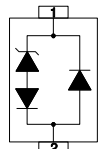
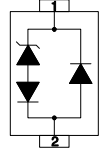
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
CP05	5.0	6.0	11.8	17.0	20	70	4	200	 <p>SOT-23-6</p>
CP05C	5.0	6.0	11.8	17.0	20	70	5	200	 <p>SOT-23-6</p>
DA12CL	12.0	13.3	32.9	34.0	2	385	4	800	 <p>8 PIN DIP</p>
DA15CL	15.0	16.7	37.7	27.0	2	300	4	800	
DA05CM	5.0	6.0	24.6	45.0	200	500	6	800	 <p>8 PIN DIP</p>
DA12CM	12.0	13.3	32.9	34.0	2	385	6	800	
DA15CM	15.0	16.7	37.7	27.0	2	300	6	800	
DA24CM	24.0	26.7	53.0	20.0	2	200	6	800	
DA12CN	12.0	13.3	32.9	34.0	2	385	8	800	 <p>16 PIN DIP</p>
DA05CP	5.0	6.0	24.6	45.0	200	500	12	800	 <p>16 PIN DIP</p>
DA24CP	24.0	26.7	53.0	20.0	2	200	12	800	
DA05L	5.0	6.0	24.6	45.0	200	880	4	800	 <p>8 PIN DIP</p>
DA05M	5.0	6.0	24.6	45.0	200	880	6	800	 <p>8 PIN DIP</p>

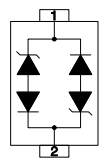
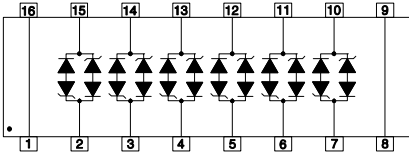
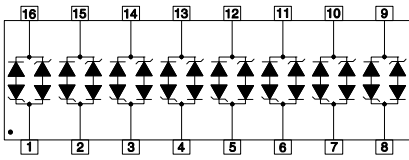
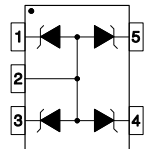
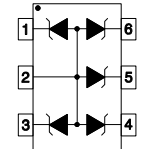
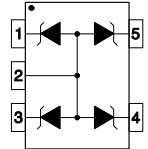
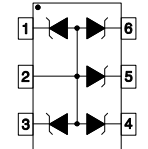
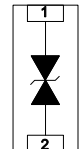
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
DA05N	5.0	6.0	24.6	45.0	200	880	8	800	<p>16 PIN DIP</p>
DA05P	5.0	6.0	24.6	45.0	200	880	12	800	<p>16 PIN DIP</p>
DFN6-36	33.0	35.0	45.0	2.0	5.0	50	3	300	<p>Top View DFN-6</p>
DLZ-5A	5.0	6.0	18.1	70.0	200	880	15	1300	<p>16 PIN DIP CERAMIC</p>
DLZ-12A	12.0	13.3	28.0	48.0	2	440	15	1300	
DLZ-17A	17.0	19.2	37.4	35.0	2	330	15	1300	
DLZ-24A	24.0	26.7	50.5	26.0	2	275	15	1300	
DLZ-30A	30.0	33.3	60.0	24.0	2	220	15	1300	
DLZ-8C	8.0	8.5	29.0	45.0	10	440	15	1300	<p>16 PIN DIP CERAMIC</p>
DLZ-13CA	13.0	14.4	31.0	43.0	4	385	15	1300	
DLZ-19CA	19.0	21.6	40.5	33.0	4	275	15	1300	
DLZ-30CA	30.0	33.3	62.5	21.0	4	165	15	1300	
Note: The DLZ Series is not ROHS Compliant.									
DL0521P	5.0	6.0	18	1	1	0.6	1	20	<p>DFN-2</p>
DSOT05C	5.0	6.0	12.5	2.0	2	9	1	100	<p>DFN-3</p>
ESD4-DFN	5.0	6.0	12.0	2.0	0.1 @ 3V	7 @ 2.5V	4	-	<p>DFN-4</p>

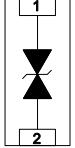
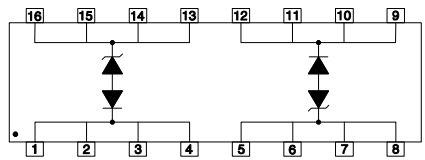
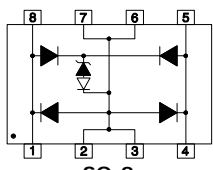
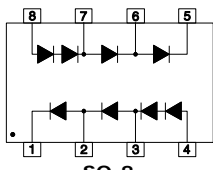
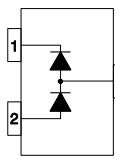
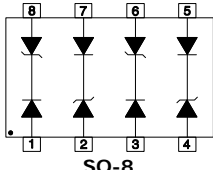
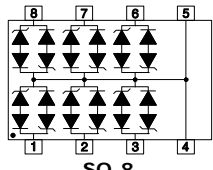
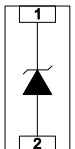
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
ESOT3.3LC-2	3.3	3.5	6.5	1.0	2.0	15	2	175	 SOT-23
ESOT3.3LCC	3.3	3.6	-	-	2.0	15	1	50	 SOT-23
ESOT12LCC-1	12.0	13.3	29.0	9.0	1.0	3	1	250	 SOT-23-6
ESOT24LCC-2	24.0	36.6	-	-	1.0	6	2	100	 SOT-23
GBLC03	3.3	4.0	19.0	20.0	5	3	1	350	 SOD-323
GBLC05	5.0	6.0	18.3	17.0	5	3	1	350	
GBLC03I	3.0	4.0	13.9	15.0	5	0.6	1	350	
GBLC05I	5.0	6.0	18.3	17.0	5	0.6	1	350	
GBLC12I	12.0	13.3	28.6	11.0	1	0.6	1	350	
GBLC03LC	3.3	4.0	20.0	24.0	5	0.8	1	250	
GBLC05LC	5.0	6.0	18.3	15.0	5	0.7	1	250	
GBLC03C	3.3	4.0	19.0	20.0	5	3	1	350	
GBLC05C	5.0	6.0	18.3	17.0	5	3	1	350	
GBLC08C	8.0	8.5	18.5	17.0	2	3	1	350	
GBLC12C	12.0	13.3	28.6	11.0	1	3	1	350	
GBLC15C	15.0	16.7	31.8	10.0	1	3	1	350	
GBLC24C	24.0	26.7	56.0	6.0	1	3	1	350	
GBLC03CI	3.0	4.0	13.9	15.0	5	0.6	1	350	
GBLC05CI	5.0	6.0	18.3	17.0	5	0.6	1	350	
GBLC12CI	12.0	13.3	28.6	11.0	1	0.6	1	350	
GBLC03CLC	3.3	4.0	20.0	24.0	5	0.8	1	250	
GBLC05CLC	5.0	6.0	18.3	15.0	5	0.7	1	250	
GBLCSC03	3.3	4.0	13.0	10.0	1	1.5	1	200	 SC-79
GBLCSC05	5.0	6.0	16.0	10.0	1	1.5	1	200	
GBLCSC08	8.0	8.5	-	-	1	1.5	1	200	

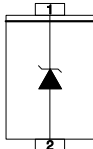
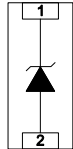
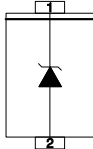
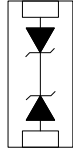
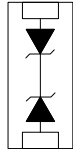
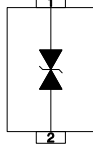
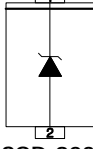
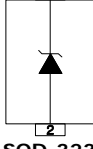
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
GBLCSC03C	3.3	4.0	13.0	10.0	1	1.5	1	200	 <p>SC-79</p>
GBLCSC05C	5.0	6.0	16.0	10.0	1	1.5	1	200	
GBLCSC08C	8.0	8.5	-	-	1	1.5	1	200	
GBLCSC08CLC	8.0	8.5	13.0	1.0	1.0	0.4	1	125	
LCA05C	5.0	6.0	24.0	45.0	100	15	6	800	 <p>16 PIN DIP</p>
LCA12C	12.0	13.3	32.0	34.0	4	15	6	800	
LCD05C	5.0	6.0	24.0	45.0	100	15	8	800	 <p>16 PIN DIP</p>
LCD08C	8.0	8.5	25.5	40.0	10	15	8	800	
LCD12C	12.0	13.3	32.0	34.0	4	15	8	800	
LCD24C	24.0	26.7	48.0	22.0	4	15	8	800	
MSMF05	5.0	6.0	12.0	9.0	1	40	3-4	100	 <p>SOT-553</p>
MSMF05C	5.0	6.0	12.0	9.0	1	40	4-5	100	 <p>SOT-563</p>
MSMF05LC*	5.0	6.0	12.0	2.0	1	9	3-4	25	 <p>SOT-553</p>
Note*: Also available in SOT-953 package configuration, part number VSMF05LC									
MSMF05LCC*	5.0	6.0	12.0	2	1	9	4-5	25	 <p>SOT-563</p>
Note*: Also available in SOT-963 package configuration, part number VSMF05LCC									
P0201D05C	4.7	5.7	-	-	0.5	5	1	10	 <p>DFN-0201</p>

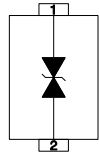
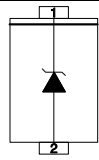
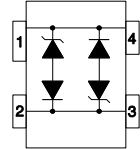
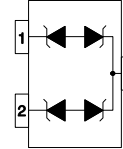
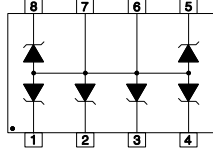
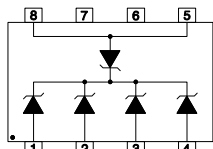
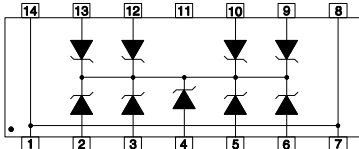
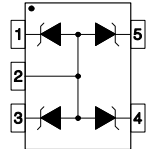
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
P5V0S1UL	5.0	6.0	9.8	1.0	1.0	70	1	110	 <p>DFN-2</p>
P5V0S1ULC	5.0	6.0	9.8	1.0	1.0	30	1	110	
PLC01-6*	6.0	8.0	16.0	200	25	50	1	1500	 <p>SO-16(WIDE BODY)</p>
Note*: I_{PP} & P_{PP} @ 10/1000 μ s									
PLC03-3.3	3.0	2.8	18.0	100	2	25	1	1800	 <p>SO-8</p>
PLC496	1.0	2.5	12.5	30.0	20	1.25	1	500	 <p>SO-8</p>
PLC497	1.0	1.3	5.0	50.0	20	2.5	1	250	 <p>SOT-23</p>
PLCDA05	5.0	6.0	13.5	42.0	20	5	2P	500	 <p>SO-8</p>
PLCDA12	12.0	13.3	25.9	21.0	1	5	2P	500	
PLCDA15	15.0	16.7	30.0	17.0	1	5	2P	500	
PLCDA03C-6	3.3	4.5	20.0	35.0	125	8	6	500	 <p>SO-8</p>
PLCDA05C-6	5.0	6.0	24.0	42.0	20	8	6	500	
PLCDA08C-6	8.0	8.5	26.0	34.0	10	8	6	500	
PLCDA15C-6	15.0	16.7	39.0	17.0	2	8	6	500	
PLW0501D	5.0	6.0	9.8	1.0	1	70	1	150	 <p>DFN-2</p>

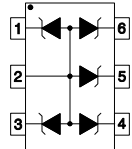
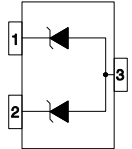
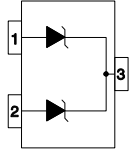
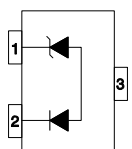
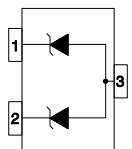
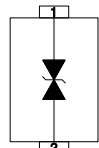
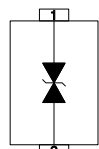
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
PLW0501H	5.0	6.0	12.5	16.0	5	120	1	250	 SC-79
PLW0501P	5.0	6.0	12.5	16.0	5	120	1	250	 DFN-2
PLW1201H	12.0	13.3	24.0	5.0	1	50	1	200	 SC-79
PRSB6.8C	4.7	5.7	-	-	1	15	1	10*	 DFN-2
Note*: Power at 10/1000 μ s. Also available in SOD-723 package configuration, part number RSB6.8G.									
PRSB6.8CT	4.7	5.7	-	-	1.0	15	1	10*	 DFN-2T
Note*: Power at 10/1000 μ s.									
PRSB6.8D	4.7	5.7	-	-	0.5	15	1	10*	 SOD-923
Note*: Power at 10/1000 μ s.									
PRSB6.8U	5.0	6.0	-	-	1	40	1	50	 SOD-923
PSD03	3.3	4.0	10.9	43.0	125	500	1	500	 SOD-323
PSD05	5.0	6.0	13.5	42.0	10	350	1	500	
PSD12	12.0	13.3	25.9	21.0	1	150	1	500	
PSD15	15.0	16.7	30.0	17.0	1	100	1	500	
PSD24	24.0	26.7	49.0	12.0	1	88	1	500	
PSD36	36.0	40.0	75.0	5.0	1	75	1	500	

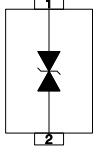
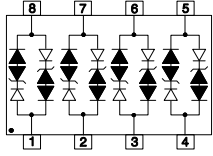
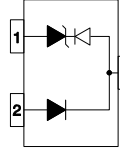
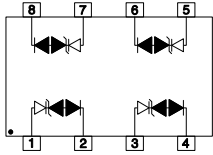
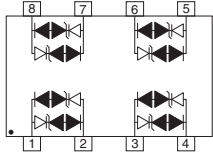
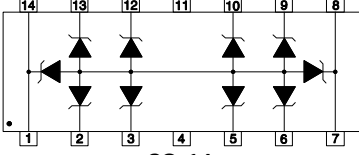
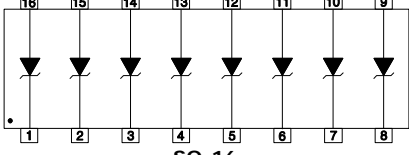
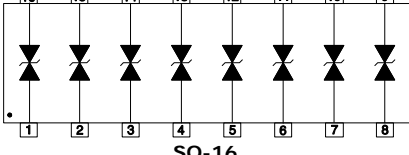
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
PSD03C	3.3	4.0	10.9	39.0	125	200	1	400	 <p>SOD-323</p>
PSD05C	5.0	6.0	14.5	28.0	10	175	1	400	
PSD12C	12.0	13.3	29.5	14.0	1	50	1	400	
PSD15C	15.0	16.7	33.0	12.0	1	40	1	400	
PSD24C	24.0	26.7	46.2	9.0	1	40	1	400	
PSD36C	36.0	40.0	75.0	5.0	1	35	1	400	
PSD05HP	5.0	6.0	15.0	72.0	20.0	800	1	1000	 <p>SOD-323</p>
PSLC05C	5.0	6.0	18.3	17.0	20	5	1	350	 <p>SOT-143</p>
PSLC12C	12.0	13.3	28.6	11.0	1	5	1	350	
PSLC15C	15.0	16.6	31.8	10.0	1	5	1	350	
PSLC24C	24.0	26.7	56.0	6.0	1	5	1	350	
PSM712 Pin 3-1, 3-2 Pin 1-3, 2-3	7.0 12.0	7.5 13.3	17.0 30.0	34.0 30.0	20 1	75 75	1 1	600 600	 <p>SOT-23</p>
PSMDA05-6	5.0	6.0	18.0	17.0	20	120	5-6	350	 <p>SO-8</p>
PSMDA12C-4	12.0	13.3	29.0	20.0	1	150	4	500	 <p>SO-8</p>
PSMDA15C-4	15.0	16.7	32.0	18.0	1	120	4	500	
PSMDA24C-4	24.0	26.7	45.0	13.0	1	100	4	500	
PSMDA05C-8	5.0	6.0	15.4	30.0	100	350	8	450	 <p>SO-14</p>
PSMDA15C-8	15.0	16.7	32.4	14.0	1	120	8	450	
PSMDA24C-8	24.0	26.7	45.0	10.0	1	100	8	450	
PSMF05	5.0	6.0	12.0	9.0	10	60	4	100	 <p>SC70-5L</p>

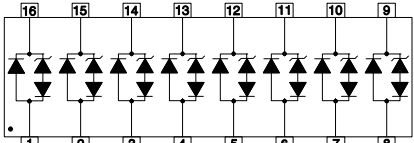
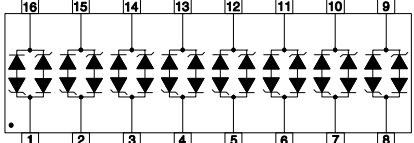
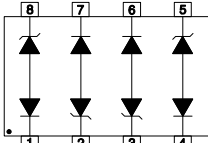
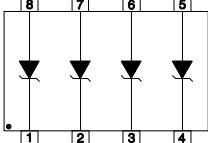
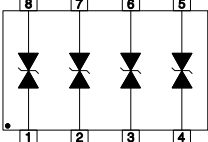
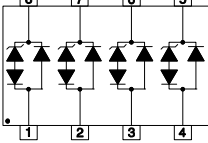
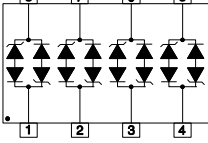
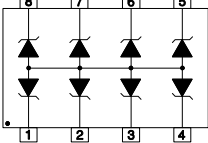
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
PSMS05C*	5.0	6.0	21.0	17.0	20	150	4	350	 <p>SOT-23-6</p>
Note*: PSMS & PSMSxxC Series are identical to SMS & SMSxxC Series									
PSOT03C	3.3	4.0	10.9	43.0	125	300	1	500	 <p>SOT-23</p>
PSOT05C	5.0	6.0	13.5	42.0	20	210	1	500	
PSOT12C	12.0	13.3	25.9	21.0	2	90	1	500	
PSOT15C	15.0	16.7	30.0	17.0	1	60	1	500	
PSOT24C	24.0	26.7	49.0	12.0	1	63	1	500	
PSOT36C	36.0	40.0	76.8	9.0	1	60	1	500	
PSOT05CU	5.0	6.02	9.8	1.0	10	210	1-2	300	
PSOT36KCA	33.0	36.0	66.0	6.0	0.1	45	2	300	 <p>SOT-23</p>
PSOT03LC	3.3	4.0	10.9	43.0	125	5	1	500	 <p>SOT-23</p>
PSOT05LC	5.0	6.0	13.5	42.0	20	5	1	500	
PSOT08LC	8.0	8.5	16.9	34.0	10	5	1	500	
PSOT15LC	15.0	16.7	30.0	17.0	1	5	1	500	
PSOT24LC	24.0	26.7	49.0	12.0	1	5	1	500	
PSOT03LCC	3.3	4.0	12.0	22.0	75	200	1	300	 <p>SOT-23</p>
PSOT05LCC	5.0	6.0	15.0	20.0	10	120	1	300	
RSB6.8B*	4.7	5.7	-	-	0.5**	30	1	10**	 <p>SOD-323</p>
Note*: Also available in SOD-723 package configuration, part number PRSB6.8C. Note**: P_{PP} @ 10/1000 μ s, Leakage Current - V_{WM} @ 3.5V									
RSB6.8G*	4.7	5.7	-	-	0.5**	15	1	10**	 <p>SOD-723</p>
Note*: Also available in SOD-723 package configuration, part number PRSB6.8C. Note**: P_{PP} @ 10/1000 μ s, Leakage Current - V_{WM} @ 3.5V									

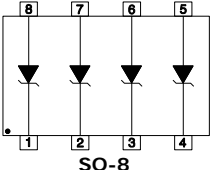
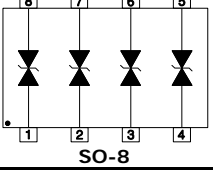
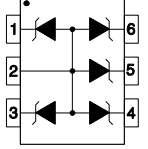
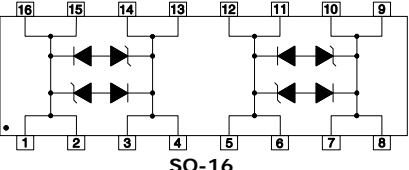
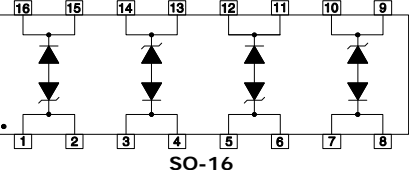
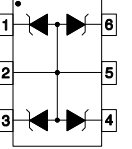
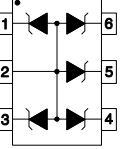
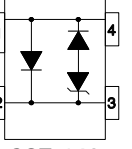
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
RSB6.8S*	4.7	5.7	-	-	0.5**	30	1	10**	 <p>SC-79</p>
<p>Note*: Also available in SOD-723 package configuration, part number PRSB6.8C. Note**: P_{pp} @ 10/1000μs, Leakage Current - V_{WM} @ 3.5V</p>									
SLVDA2.8LC	2.8	3.0	21.0	30.0	1	5	4P	600	 <p>SO-8</p>
SLVU2.8	2.8	3.0	21.0	30.0	1	2.5	1	600	 <p>SOT-23</p>
SLVU2.8-4	2.8	3.0	21.0	30.0	1	3	2P	600	 <p>SO-8</p>
SLVU2.8-8	2.8	3.0	17.0	30.0	1	6	4P	600	 <p>SO-8</p>
SM14M05C	5.0	6.0	17.8	47.0	100	500	8	800	 <p>SO-14</p>
SM14M12C	12.0	13.3	26.6	34.0	2	385	8	800	
SM14M15C	15.0	16.7	33.1	25.0	2	300	8	800	
SM14M24C	24.0	26.7	42.1	19.0	2	200	8	800	
SM1605	5.0	6.0	13.5	42.0	10	550	8	500	 <p>SO-16</p>
SM1612	12.0	13.3	25.9	21.0	2	185	8	500	
SM1615	15.0	16.7	30.0	17.0	2	140	8	500	
SM1605C	5.0	6.0	13.5	42.0	10	310	8	500	 <p>SO-16</p>
SM1612C	12.0	13.3	25.9	21.0	2	105	8	500	
SM1615C	15.0	16.7	30.0	17.0	2	80	8	500	

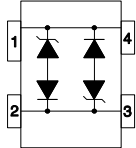
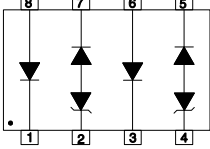
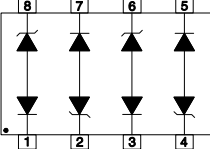
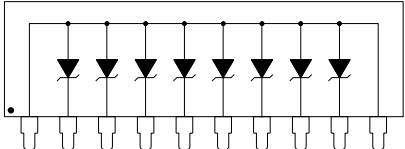
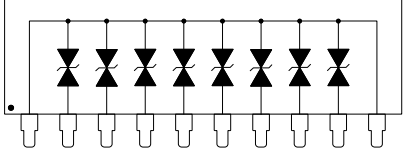
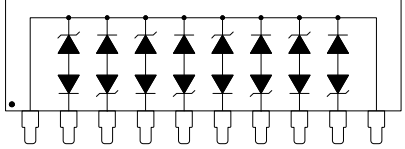
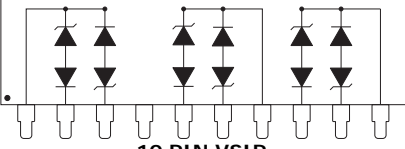
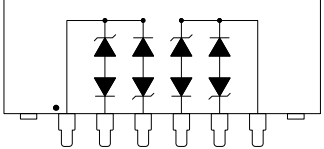
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
SM16LC03	3.3	4.5	20.0	35.0	125	15	8	500	 <p>SO-16</p>
SM16LC05	5.0	6.0	24.0	42.0	20	15	8	500	
SM16LC05C	5.0	6.0	24.0	42.0	20	15	8	500	 <p>SO-16</p>
SM16LC08C	8.0	8.5	26.0	30.0	10	15	8	500	
SM16LC12C	12.0	13.3	33.0	21.0	2	15	8	500	
SM16LC15C	15.0	16.7	39.0	15.0	2	15	8	500	
SM16LC24C	24.0	26.7	57.0	10.0	2	15	8	500	
SM16LC36C	36.0	40.0	72.0	7.0	2	15	8	500	
SM8LC05	5.0	6.0	24.6	45.0	100	25	2P	800	 <p>SO-8</p>
SM8LC08	8.0	8.5	25.5	40.0	10	25	2P	800	
SM8LC12	12.0	13.3	32.9	34.0	4	25	2P	800	
SMDA03	3.3	4.0	10.9	43.0	125	800	4	500	 <p>SO-8</p>
SMDA05	5.0	6.0	13.5	42.0	20	550	4	500	
SMDA15	15.0	16.7	30.0	17.0	1	140	4	500	
SMDA24	24.0	26.7	49.0	12.0	1	88	4	500	
SMDA36	36.0	40.0	76.8	9.0	1	80	4	500	
SMDA05C	5.0	6.0	13.5	42.0	20	308	4	500	 <p>SO-8</p>
SMDA08C	8.0	8.5	16.9	34.0	10	300	4	500	
SMDA12C	12.0	13.3	25.9	27.0	1	105	4	500	
SMDA15C	15.0	16.7	30.0	17.0	1	80	4	500	
SMDA24C	24.0	26.7	49.0	12.0	1	50	4	500	
SMDA03LC	3.3	4.5	10.9	43.0	125	15	4	500	 <p>SO-8</p>
SMDA05LC	5.0	6.0	13.5	42.0	20	15	4	500	
SMDA24LC	24.0	26.7	49.0	12.0	1	15	4	500	
SMDA03LCC	3.3	4.5	10.9	43.0	125	15	4	500	 <p>SO-8</p>
SMDA05LCC	5.0	6.0	13.5	42.0	20	15	4	500	
SMDA08LCC	8.0	8.5	16.9	34.0	10	15	4	500	
SMDA15LCC	15.0	16.7	30.0	17.0	1	15	4	500	
SMDA15CM	15.0	16.7	31.1	18.0	1	100	4-7	500	 <p>SO-8</p>

TVS DIODE ARRAYS

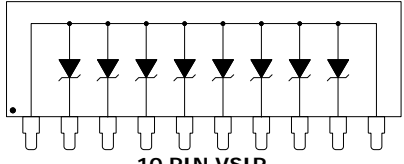
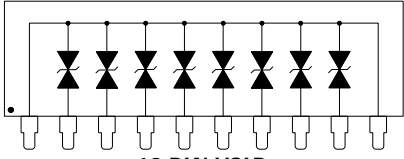
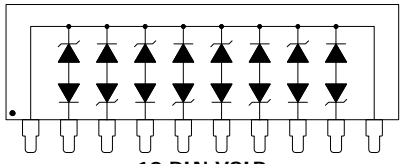
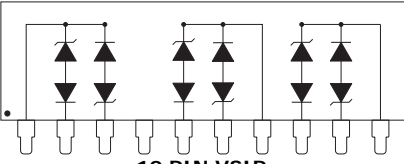
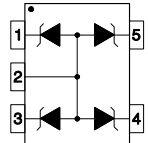
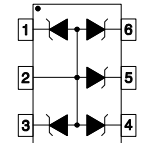
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
SMDB05	5.0	6.0	24.6	45.0	200	880	4	800	 <p>SO-8</p>
SMDB24	24.0	26.7	48.5	20.0	2	275	4	800	
SMDB05C	5.0	6.0	24.6	45.0	200	493	4	800	 <p>SO-8</p>
SMDB12C	12.0	13.3	32.9	34.0	2	248	4	800	
SMDB15C	15.0	16.7	38.5	27.0	2	225	4	800	
SMDB24C	24.0	26.7	48.5	20.0	2	155	4	800	
SMF05C	5.0	6.0	12.0	9.0	5	60	4-5	100	 <p>SC70-6L</p>
SMF12C	12.0	13.3	23.8	4.2	1	30	4-5	100	
SMLC6.5C-2	6.5	7.2	12.4	10.0	300	30	2P	3600	 <p>SO-16</p>
SMLC12C-2	12.0	13.3	19.9	10.0	2	30	2P	3600	
SMP6LC05-2P	5.0	6.0	9.6	10.0	300	15	2P	3600	 <p>SO-16</p>
SMP6LC6.5-2P	6.5	7.2	12.4	10.0	300	15	2P	3600	
SMP6LC08-2P	8.0	8.5	13.6	10.0	25	15	2P	3600	
SMP6LC12-2P	12.0	13.3	19.9	10.0	2	15	2P	3600	
SMP6LC15-2P	15.0	16.7	24.4	10.0	2	15	2P	3600	
SMP6LC24-2P	24.0	26.7	38.9	10.0	2	15	2P	3600	
SMS05*	5.0	6.0	21.0	17.0	20	150	4	350	 <p>SOT-23-6</p>
SMS05C*	5.0	6.0	21.0	17.0	20	150	4	350	 <p>SOT-23-6</p>
Note*: PSMS & PSMSxxC Series are identical to SMS & SMSxxC Series									
USB0405	5.0	6.0	18.3	17.0	20	5	1	500	 <p>SOT-143</p>
USB0412	12.0	13.3	28.6	11.0	1	5	1	500	
USB0415	15.0	16.6	31.8	10.0	1	5	1	500	
USB0424	24.0	26.7	56.0	6.0	1	5	1	500	

TVS DIODE ARRAYS

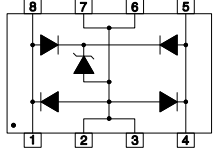
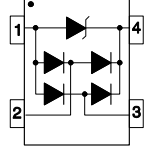
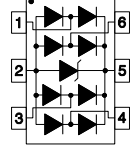
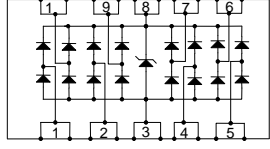
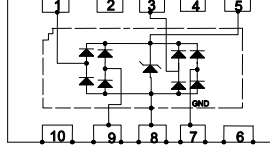
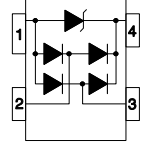
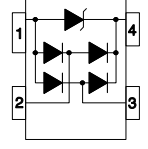
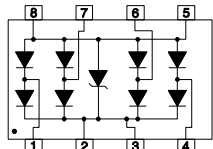
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
USB0403C	3.3	4.0	19.0	20.0	125	5	1	500	 <p>SOT-143</p>
USB0405C	5.0	6.0	18.3	17.0	20	5	1	500	
USB0412C	12.0	13.3	28.6	11.0	1	5	1	500	
USB0415C	15.0	16.6	31.8	10.0	1	5	1	500	
USB0424C	24.0	26.7	56.0	6.0	1	5	1	500	
USB50803	3.3	4.5	11.0	5.0	125	3	1	500	 <p>SO-8</p>
USB50805	5.0	6.0	13.0	5.0	20	3	1	500	
USB50812	12.0	13.3	26.0	5.0	1	3	1	500	
USB50815	15.0	16.7	32.0	5.0	1	3	1	500	
USB50824	24.0	26.7	57.0	5.0	1	3	1	500	
USB50803C	3.3	4.5	11.0	5.0	125	3	1	500	 <p>SO-8</p>
USB50805C	5.0	6.0	13.0	5.0	20	3	1	500	
USB50812C	12.0	13.3	26.0	5.0	1	3	1	500	
USB50815C	15.0	16.7	32.0	5.0	1	3	1	500	
USB50824C	24.0	26.7	57.0	5.0	1	3	1	500	
VS10P05	5.0	6.0	12.5	10.0	100	880	8	800	 <p>10 PIN VSIP</p>
VS10P08	8.0	8.5	16.6	10.0	10	800	8	800	
VS10P12	12.0	13.3	22.7	10.0	1	440	8	800	
VS10P05C	5.0	6.0	12.5	10.0	100	500	8	800	 <p>10 PIN VSIP</p>
VS10P24C	24.0	26.7	45.6	10.0	1	275	8	800	
VS10P03LC	3.3	4.5	9.0	5.0	125	15	4	300	 <p>10 PIN VSIP</p>
VS10P05LC	5.0	6.0	12.5	10.0	100	25	4	800	
VS10P05LCI	5.0	6.0	12.5	10.0	100	25	3	800	 <p>10 PIN VSIP</p>
VSB06P05LCI+	5.0	6.0	16.5	36.0	300	50	2	600	 <p>6 PIN VSIP</p>

Note: P_{PP} @ 10/1000 μ s

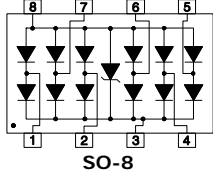
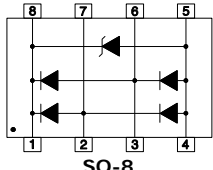
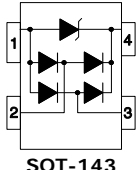
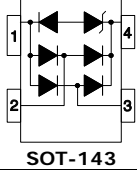
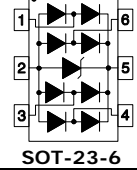
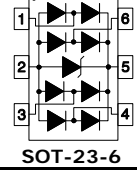
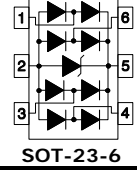
TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - $V_C @ I_{PP}$	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_j - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
VSB10P05	5.0	6.0	9.1	10.0	300	4000	8	3400	 <p>10 PIN VSIP</p>
VSB10P24	24.0	26.7	37.8	10.0	2	1250	8	3400	
VSB10P05C	5.0	6.0	9.1	10.0	300	2000	8	3400	 <p>10 PIN VSIP</p>
VSB10P33C	33.0	36.7	51.9	10.0	2	400	8	3400	
VSB10P05LC	5.0	6.0	9.1	10.0	300	100	4P	3400	 <p>10 PIN VSIP</p>
VSB10P05LCI	5.0	6.0	9.1	10.0	300	100	3P	3400	 <p>10 PIN VSIP</p>
VSMF05LC*	5.0	6.0	12.0	2.0	1	9	4	25	 <p>SOT-953</p>
<p>Note*: Also available in SOT-553 package configuration, part number MSMF05LC</p>									
VSMF05LCC*	5.0	6.0	12.0	2	1	9	4-5	25	 <p>SOT-963</p>
<p>Note*: Also available in SOT-563 package configuration, part number MSMF05LC</p>									

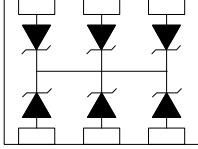
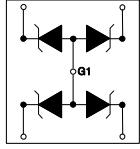
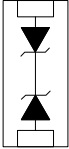
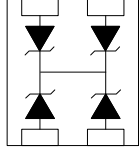
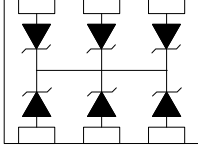
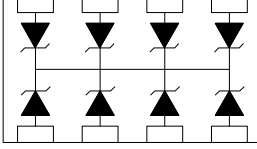
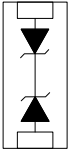
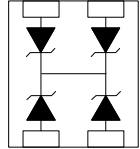
STEERING DIODE/TVS COMBO

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE $C_{j(sD)}$ - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
PLC03-6	6.0	6.8	20.0	100.0	25	8	2	2000	 SO-8
PLR0502	5.0	6.0	20.0	10.0	1.0	0.6	2	200	 SOT-543
PLR0504F	5.0	6.0	25.0	5.0	3	1.9	4	200	 SC70-6L
PLR0508	5.0	6.0	13.0	5.0	1.0	1.6	8	200	 DFN-10
PLR3304	3.3	3.3	10.0	10.0	1.0	4.0	2	400	 DFN-10
PSR05	5.0	6.0	20.0	28.0	5	10	2	500	 SOT-143
PSR05LC	5.0	6.0	20.0	28.0	5	2.5	2	500	 SOT-143
PSRDA3.3-4	3.3	4.0	10.9	43.0	125	15	4	500	 SO-8
PSRDA05-4	5.0	6.0	13.5	42.0	20	15	4	500	
PSRDA12-4	12.0	13.3	25.9	21.0	1	15	4	500	
PSRDA15-4	15.0	16.7	30.0	17.0	1	15	4	500	

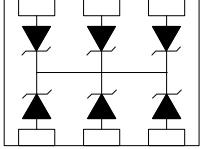
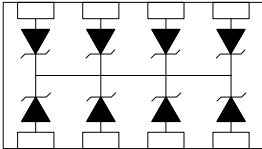
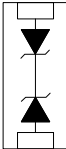
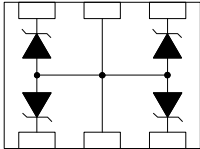
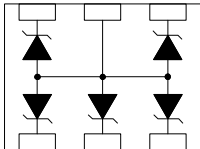
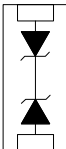
STEERING DIODE/TVS COMBO

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - $V_C @ I_{PP}$	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE $C_{j(SD)}$ - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
PSRDA3.3-6	3.3	4.0	10.9	43.0	125	15	6	500	 <p>SO-8</p>
PSRDA05-6	5.0	6.0	13.5	42.0	20	15	6	500	
PUSB6B	5.25	6.0	13.2	35.0	10	15	2	500	 <p>SO-8</p>
SR12	12.0	13.3	30.0	16.0	1	10	2	500	 <p>SOT-143</p>
SR2.8	2.8	3.0 @ 2 μ A	8.5	5.0	1	4.5	2	300	 <p>SOT-143</p>
SRV05-4	5.0	6.0	15.0	5.0	5	3.5	4	500	 <p>SOT-23-6</p>
SRV05-4LC	5.0	6.0	15.0	5.0	5	0.	4	500	 <p>SOT-23-6</p>
SRV2.8-4	2.8	3.0	8.5	5.0	5	3.5	4	500	 <p>SOT-23-6</p>

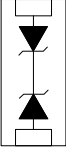
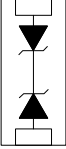
FLIP CHIP ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - $V_C @ I_{PP}$	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_T - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
CSP040605C	5.9	6.0	13.0	15.0	10	35	3-5	200	 <p>CHIP SCALE PACKAGE</p>
ESD4-LFC*	5.0	6.0	8.0	0.01	0.1 @ 3.3V	15	4	-	 <p>5 BUMP FLIP CHIP</p>
Note*: Capacitance measured @ 2.5V, 1MHz									
LC0402FC05C	5.9	6.0	13.0	15.0	10**	35	1	200	 <p>0402</p>
LC0404FC05C	5.9	6.0	13.0	15.0	10**	35	1-3	200	 <p>0404</p>
LC0406FC05C	5.9	6.0	13.0	15.0	10**	35	3-5	200	 <p>0406</p>
LC0408FC05C	5.9	6.0	13.0	15.0	10**	35	4-7	200	 <p>0408</p>
Note**: Maximum leakage current <500nA @ 3.3V for LC040xFC Series.									
P0402FC3.3C	3.3	4.0	12.5	20.0	75*	150	1	250	 <p>0402</p>
P0402FC05C	5.0	6.0	14.7	17.0	10**	100	1	250	
P0402FC08C	8.0	8.5	19.2	13.0	10+	75	1	250	
P0402FC36C	36.0	40.0	84.0	3.0	1	25	1	250	
P0404FC05C	5.0	6.0	14.7	17.0	10**	100	1-3	250	 <p>0404</p>

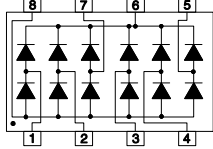
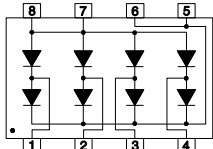
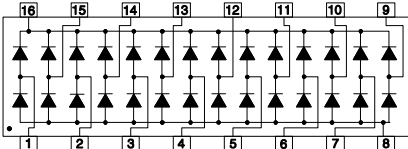
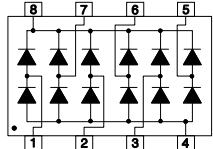
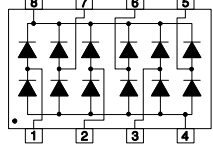
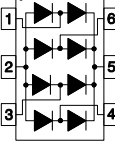
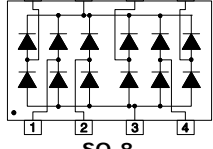
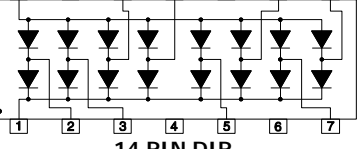
FLIP CHIP ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - $V_C @ I_{PP}$	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_T - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
P0406FC05C	5.0	6.0	14.7	17.0	10**	100	3-5	250	 <p>0406</p>
P0408FC05C	5.0	6.0	14.7	17.0	10**	100	4-7	250	 <p>0408</p>
<p>Note: P040xFC Series are patented under U.S. Patent No. Des. D456,367S. Note*: Max. leakage current < 5μA @ 2.8V for P040xFC Series. Note**: Max. leakage current < 500nA @ 3.3V for P040xFC Series. Note†: Max. leakage current < 200nA @ 5V for P040xFC Series.</p>									
PKFC3.3C	3.3	4.0	12.5	20.0	75*	150	1	250	 <p>ENCAPSULATED 0502</p>
PKFC05C	5.0	6.0	14.7	17.0	10**	100	1	250	
<p>Note*: Max. leakage current < 5μA @ 2.8V. Note**: Max. leakage current < 500nA @ 3.3V.</p>									
SFC05-4	5.0	6.0	11.0	24.0	10	150*	4	300	 <p>QUAD</p>
<p>Note*: Capacitance ratings reflect junction capacitance.</p>									
SFC05-5	5.0	6.0	11.0	24.0	10	150*	4-5	250	 <p>PENTA</p>
<p>Note*: Capacitance ratings reflect junction capacitance.</p>									
U0402FC3.3C	3.3	4.0	12.5	20.0	75*	150	1	250	 <p>U0402</p>
U0402FC05C	5.0	6.0	14.7	17.0	10**	100	1	250	
U0402FC08C	8.0	8.5	19.2	13.0	10†	75	1	250	
<p>Note*: Max. leakage current < 5μA @ 2.8V for U040xFC Series. Note**: Max. leakage current < 500nA @ 3.3V for U040xFC Series. Note†: Max. leakage current < 200nA @ 5V for U040xFC Series.</p>									

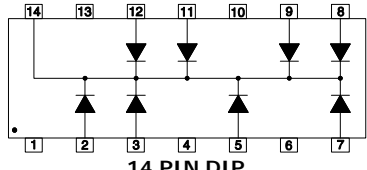
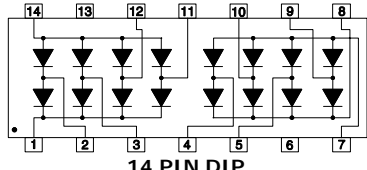
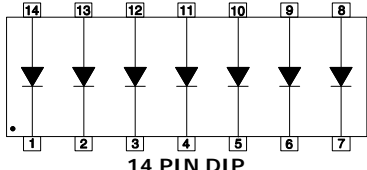
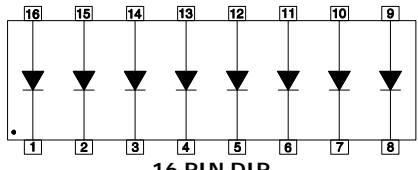
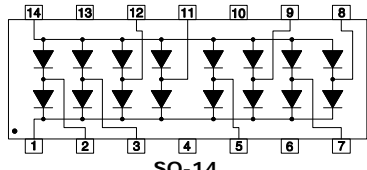
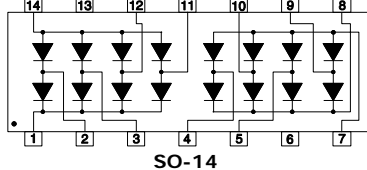
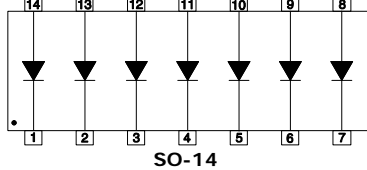
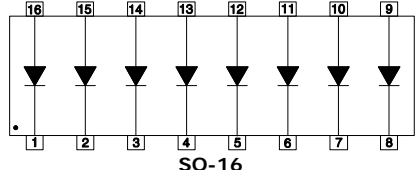
FLIP CHIP ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C @ I_{PP}	CURRENT I_{PP} @ 8/20 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	CAPACITANCE C_T - pF	NUMBER OF LINES	POWER @ 8/20 μ s - WATTS	PIN CONFIGURATION
ULC0402FC3.3C	3.3	4.0	12.5	16.0	75*	70	1	200	 U0402
ULC0402FC05C	5.9	6.0	13.0	15.0	10**	35	1	200	
ULC0402FC08C	8.0	8.5	18.0	11.0	1	32	1	200	
Note*: Max. leakage current < 5 μ A @ 2.8V for ULC040xFC Series. Note**: Max. leakage current < 500nA @ 3.3V for ULC040xFC Series. Note†: Max. leakage current < 200nA @ 5V for ULC040xFC Series.									
ULLC0402FC05C	5.0	6.0	-	-	1	6	1	-	 U0402

STEERING DIODES

PART NUMBER	REPETITIVE PEAK REV. VOLT. - V_{RRM}	FORWARD PEAK PULSE CURRENT - A	FORWARD VOLTAGE $V_f @ I_f$	LEAKAGE CURRENT - $\mu A @ V_{RRM}$	CAPACITANCE C_j - pF	NUMBER OF LINES	PIN CONFIGURATION
DALC112S1	20.0	12.0	1.3 @ 50mA	0.02 @ 18V	5	6	 <p>SO-8</p>
ET108	25.0	12.0	9 @ 12A	2	6	4	 <p>SO-8</p>
ET720	30.0	12.0	2 @ 1A	0.02 @ 20V	3	14	 <p>SO-16</p>
ET721	50.0	12.0	2 @ 1A	0.02	3	6	 <p>SO-8</p>
ET723	20.0	12.0	2 @ 1A	0.02	5	6	 <p>SO-8</p>
ET724	20.0	12.0	2 @ 1A	0.01	3	4	 <p>SOT-23-6</p>
IO6LC	30.0	3.5	0.95 @ 20mA	0.1 @ 5.5V	3	6	 <p>SO-8</p>
PMAD1103	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>14 PIN DIP</p>

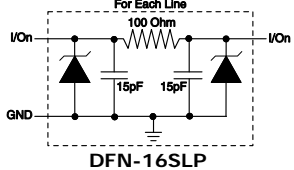
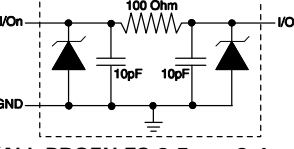
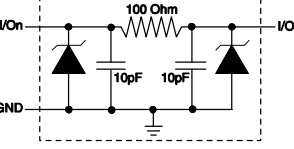
STEERING DIODES

PART NUMBER	REPETITIVE PEAK REV. VOLT. - V_{RRM}	FORWARD PEAK PULSE CURRENT - A	FORWARD VOLTAGE $V_f @ I_f$	LEAKAGE CURRENT - $\mu A @ V_{RRM}$	CAPACITANCE C_j - pF	NUMBER OF LINES	PIN CONFIGURATION
PMAD1105	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>14 PIN DIP</p>
MAD1107	50.0	12.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>14 PIN DIP</p>
PMAD1109	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	7	 <p>14 PIN DIP</p>
MAD1108	50.0	12.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>16 PIN DIP</p>
PMAD1108	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	8	
PMMAD1103	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>SO-14</p>
MMAD1107	50.0	12.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>SO-14</p>
PMMAD1109	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	7	 <p>SO-14</p>
MMAD1108	50.0	12.0	1.2 @ 100mA	0.1 @ 40V	5	8	 <p>SO-16</p>
PMMAD1108	50.0	40.0	1.2 @ 100mA	0.1 @ 40V	5	8	

STEERING DIODES

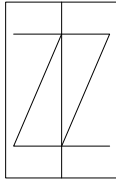
PART NUMBER	REPETITIVE PEAK REV. VOLT. - V_{RRM}	FORWARD PEAK PULSE CURRENT - A	FORWARD VOLTAGE $V_F @ I_F$	LEAKAGE CURRENT - $\mu A @ V_{RRM}$	CAPACITANCE C_j - pF	NUMBER OF LINES	PIN CONFIGURATION
PSRDA70-4	70.0	24.0	1.1 @ 100mA	5	6	4	<p>SO-8</p>
SR70	70.0	24.0	1.5 @ 1A	1	10	2	<p>SOT-143</p>
USB002	20.0	12.0	1.4 @ 10mA	1 @ 5V	0.6	2	<p>SOT-543</p>
USB004	20.0	12.0	0.95 @ 20mA	1 @ 5V	6.0	2	<p>SOT-143</p>
USB208	20.0	12.0	1.2 @ 50mA	1 @ 5V	5	4	<p>SOT-23-6</p>

EMI FILTER/TVS DIODE ARRAYS

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR} @ 1 mA	REVERSE LEAKAGE CURRENT - μA @ V_{WM}	RESISTANCE $\pm 20\%$ - OHMS	CUT-OFF FREQUENCY - MHz (50 Ohm System)	CAPACITANCE C_T - pF	NUMBER OF LINES	PIN CONFIGURATION
EM1631-08DSLP	5.0	6.0	0.1 @ 3V	100	110	30	8	 <p>For Each Line</p> <p>DFN-16SLP</p>
EM4D-100L	5.0	6.0	0.1 @ 3V	100	150	20	4	 <p>DFN-8 (ALL PROFILES 0.5mm 0.4mm Pitch)</p>
EM4DLP-100L	5.0	6.0	0.1 @ 3V	100	150	20	4	
EM8D-100L	5.0	6.0	0.1 @ 3V	100	150	20	8	 <p>DFN-16 (ALL PROFILES 0.5mm 0.4mm Pitch)</p>
EM8DLP-100L	5.0	6.0	0.1 @ 3V	100	150	20	8	
EM8DSPL-100L	5.0	6.0	0.1 @ 3V	100	150	20	8	

THYRISTORS

PART NUMBER	REPETITIVE PEAK OFF-STATE VOLTAGE - V_{DRM}	SWITCHING VOLTAGE - V_s	MINIMUM HOLDING CURRENT - mA I_H	SWITCHING CURRENT - mA I_S	MAX. OFF-STATE CURRENT - μA @ V_{DRM}	MAX. ON-STATE VOLTAGE - V_T	ON-STATE CURRENT - A I_T	CAPACITANCE C_T - pF	PIN CONFIGURATION
PP0640SA	58	77	150	800	5	4	2.2	60	
PP0720SA	65	88	150	800	5	4	2.2	60	
PP0800SA	75	98	150	800	5	4	2.2	60	
PP1100SA	90	130	150	800	5	4	2.2	60	
PP1300SA	120	160	150	800	5	4	2.2	40	
PP1500SA	140	180	150	800	5	4	2.2	40	
PP1800SA	160	220	150	800	5	4	2.2	40	
PP2300SA	190	260	150	800	5	4	2.2	30	
PP2600SA	220	300	150	800	5	4	2.2	30	
PP3100SA	275	350	150	800	5	4	2.2	30	
PP3500SA	300	400	150	800	5	4	2.2	30	
PP0300SB	25	40	50	800	5	4	2.2	110	
PP0640SB	58	77	150	800	5	4	2.2	60	
PP0720SB	65	88	150	800	5	4	2.2	60	
PP0800SB	75	98	150	800	5	4	2.2	60	
PP1100SB	90	130	150	800	5	4	2.2	60	
PP1300SB	120	160	150	800	5	4	2.2	40	
PP1500SB	140	180	150	800	5	4	2.2	40	
PP1800SB	160	220	150	800	5	4	2.2	40	
PP2300SB	190	260	150	800	5	4	2.2	30	
PP2600SB	220	300	150	800	5	4	2.2	30	
PP3100SB	275	350	150	800	5	4	2.2	30	
PP3500SB	300	400	150	800	5	4	2.2	30	
PP0640SC	58	77	150	800	5	4	2.2	120	
PP0720SC	65	88	150	800	5	4	2.2	120	
PP0800SC	75	98	150	800	5	4	2.2	120	
PP1100SC	90	130	150	800	5	4	2.2	120	
PP1300SC	120	160	150	800	5	4	2.2	80	
PP1500SC	140	180	150	800	5	4	2.2	80	
PP1800SC	160	220	150	800	5	4	2.2	80	
PP2300SC	190	260	150	800	5	4	2.2	60	
PP2600SC	220	300	150	800	5	4	2.2	60	
PP3100SC	275	350	150	800	5	4	2.2	60	
PP3500SC	300	400	150	800	5	4	2.2	60	





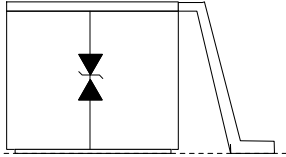



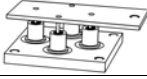
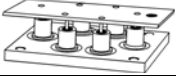

DO-214AA

SURGE RATINGS


SERIES	I_{PP} 2 X 10 μ s AMPS	I_{PP} 8 X 20 μ s AMPS	I_{PP} 10 X 160 μ s AMPS	I_{PP} 10 X 560 μ s AMPS	I_{PP} 10 X 1000 μ s AMPS	I_{TSM} 60 Hz AMPS	di/dt AMPS/ μ s (Note 1)	dv/dt V/ μ s (Note 1)
SA	150	150	100	50	50	20	500	2000
SB	300	300	150	100	80	32	500	2000
SC	500	400	200	200	100	60	500	2000

Note 1: Critical Rate of Rise for On-State Current (di/dt) and Off-State Voltage (dv/dt).

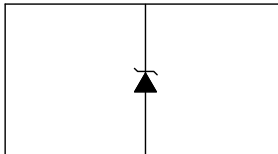
MODULES – COMPONENTS (NOT ROHS COMPLIANT)

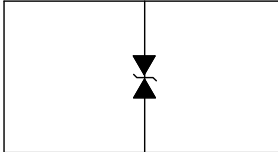
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C	CURRENT I_{pp} @ 10/1000 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	POWER @ 10/1000 μ s - kW	PACKAGE
15KP17	17.0	18.9	32.3	464.0	5000	15	 <p>AXIAL LEAD (KPA Series)</p>  <p>THRU-HOLE (KP Series)</p>
<p>Not all voltages show for the 15KP Series. Please consult the factory for other voltages.</p>							
15KP280A	280.0	311.0	452.0	33.0	10	15	
15KPA17	17.0	18.9	32.3	464.0	5000	15	
<p>Not all voltages show for the 15KPA Series. Please consult the factory for other voltages.</p>							
15KPA280A	280.0	311.0	452.0	33.0	10	15	
30KPA30A	30.0	33.3	55.2	543.0	5000	30	
<p>Not all voltages show for the 30KPA Series. Please consult the factory for other voltages.</p>							
30KPA360A	360.0	400.0	640.0	55.0	10	30	
<p>Note: Part numbers shown are unidirectional devices. Add a "CA" suffix to specify bidirectional devices, such as 15KP17CA.</p>							
2700SM78CA	78.0	86.0	150.0	15K	10	2700	
60KS200C	180.0	200.0	335.0	47.0	10	60kW @ 1.2/50 μ s	
90KS200C	180.0	200.0	280.0	47.0	0.5	90kW @ 1.2/50 μ s	
704-15K36	31.5	36.0	53.0	300.0	100	15	 
704-15K36T	31.5	36.0	53.0	300.0	500	15	
GPZ532	28.0	32.0	40.0	100*	50	2kW @ 50ms	 
GPZ1275	28.0	32.0	55.0	500*	60	5kW @ 50ms	
<p>Note*: I_{pp} @ 1 ms for GPZ Series.</p>							
P15KP17	17.0	18.9	32.3	464.0	5000	15	 <p>AXIAL LEAD</p>
<p>Not all voltages show for the 15KP Series. Please consult the factory for other voltages.</p>							
P15KP280A	280.0	311.0	452.0	33.0	10	15	
P30KP30A	30.0	33.3	55.2	543.0	5000	30	
<p>Not all voltages show for the 15KPA Series. Please consult the factory for other voltages.</p>							
P30KP360A	360.0	400.0	640.0	55.0	10	30	
<p>Note: Part numbers shown are unidirectional devices. Add a "CA" suffix to specify bidirectional devices, such as P15KP17CA.</p>							

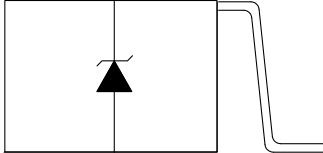
MODULES – COMPONENTS (NOT ROHS COMPLIANT)

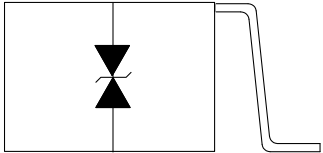
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C	CURRENT I_p @ 10/1000 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	POWER @ 10/1000 μ s - kW	PACKAGE
PHP8.4	12.0	14.0	22.0	341.0	250	7.5	
PHP24	34.0	40.0	67.0	112.0	250	7.5	
PHP30	42.5	50.0	84.0	90.0	250	7.5	
PHP60	85.0	100.0	167.0	90.0	250	15	
PHP120*	170.0	200.0	319.0	47.0	250	15	
PHP208	295.0	347.0	536.0	28.0	250	15	
PHP250*	354.0	418.0	652.0	23.0	250	15	
PHP440	623.0	735.0	1138.0	13.2	250	15	
PHP500*	708.0	835.0	1292.0	11.6	250	15	
PIP8.4	12.0	14.0	22.0	341.0	250	7.5	
PIP24	34.0	40.0	67.0	112.0	250	7.5	
PIP30	42.5	50.0	84.0	90.0	250	7.5	
PIP60	85.0	100.0	167.0	90.0	250	15	
PIP120*	170.0	200.0	319.0	47.0	250	15	
PIP208	295.0	347.0	536.0	28.0	250	15	
PIP250*	354.0	418.0	652.0	23.0	250	15	
PIP440	623.0	735.0	1138.0	13.2	250	15	
PIP500*	708.0	835.0	1292.0	11.6	250	15	

Note: PHP Series is typically used in Aerospace applications. PIP Series is typically used in Industrial applications. *indicates marine applications.

SM3KW24A	24	26.7	38.9	77.0	10	3	 <p>Unidirectional</p>
<p>Note: Part numbers shown are unidirectional. Add a "CA" suffix to specify bidirectional devices. Not all voltages are shown. Please consult factory for additional voltages.</p>							

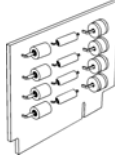
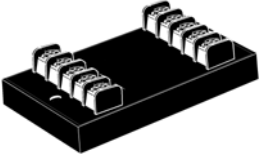
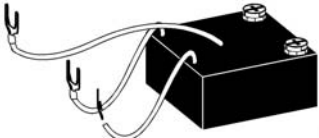
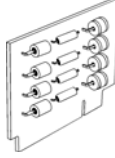
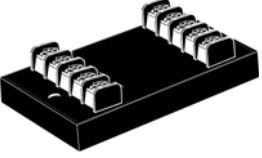
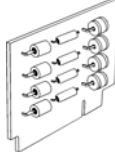
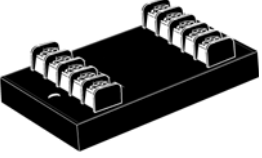
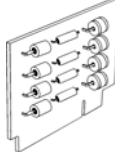
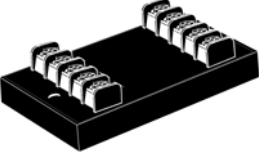
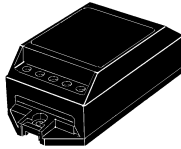

SM5KW10A	10	11.1	17.0	296.0	15	5	 <p>Bidirectional</p>
<p>Note: Part numbers shown are unidirectional. Add a "CA" suffix to specify bidirectional devices. Not all voltages are shown. Please consult factory for additional voltages.</p>							

SM15KPA17	17.0	18.9	32.3	464.0	5000	15	 <p>SMxxKPA Series</p>
<p>Not all voltages show for the SM15KPA Series. Please consult the factory for other voltages.</p>							
SM15KPA280A	280.0	311.0	452.0	33.0	10	15	


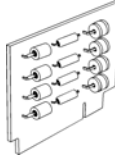
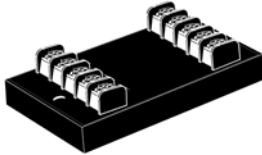
SM30KPAP30A	30.0	33.3	55.2	543.0	5000	30	 <p>SMxxKPAxxCA Series</p>
<p>Not all voltages show for the SM30KPA Series. Please consult the factory for other voltages.</p>							
SM30KPA360A	360.0	400.0	640.0	55.0	10	30	

Note: Part numbers shown are unidirectional devices. Add a "CA" suffix to specify bidirectional devices, such as SM15KPA17CA or SM30KPA17CA.

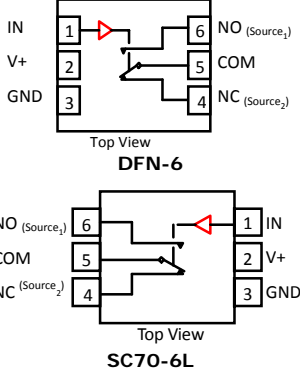
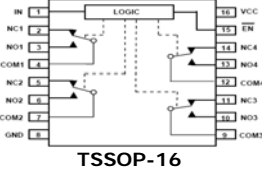
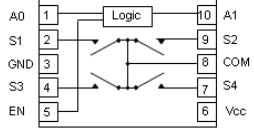
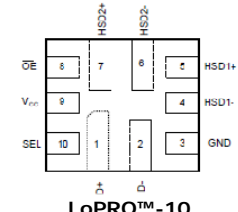
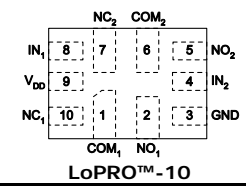
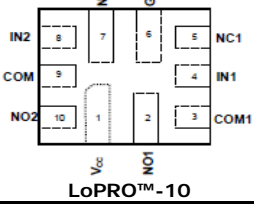
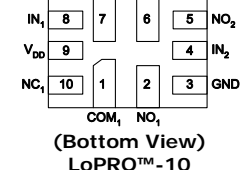
MODULES – SURGEBUSTERS™ (NOT ROHS COMPLIANT)

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	CLAMPING VOLTAGE - V_c @ 8/20 μ S	MAX. CURRENT @ 8/20 μ s – kA/Line	LEAKAGE CURRENT - μ A @ V_{WM}	SERIES RESISTANCE OHMS	CAPACITANCE pF	PACKAGE	
232B	±25	40.0 @ 500A	10	5	12	2000	 	
232E	±25	40.0 @ 500A	10	5	12	2000		
Note: Lines of protection: 2 pair.								
420E212	±12.0	22.0 @ 2kA	10	5	12	6000		
420E225	±25.0	44.0 @ 2kA	10	5	12	3000		
420E228	±28.0	46.0 @ 2kA	10	5	12	2800		
420E236	±36.0	60.0 @ 2kA	10	5	12	1500		
420E250	±50.0	80.0 @ 2kA	10	5	12	1200		
420E260	±60.0	95.0 @ 2kA	10	5	12	1000		
Note: Lines of protection: 1 pair.								
420LB28	±28.0	40.0 @ 2kA	10	5	12	2800	 	
420LB35	±35.0	60.0 @ 2kA	10	5	12	1500		
420LB60	±60.0	85.0 @ 2kA	10	5	12	1000		
420LE28	±28.0	40.0 @ 2kA	10	5	12	2800		
420LE35	±35.0	60.0 @ 2kA	10	5	12	1500		
420LE60	±60.0	85.0 @ 2kA	10	5	12	1000		
Note: Lines of protection: 2 pair.								
422B	±12.0	24.0 @ 500A	10	5	12	5000	 	
422E	±12.0	24.0 @ 500A	10	5	12	5000		
Note: Lines of protection: 2 pair.								
422ELC	±12.0	30.0 @ 500A	10	1	12	25	 	
485ELC	±7.0	20.0 @ 500A	10	10	12	25		
Note: Lines of protection: 2 pair.								
587B051	130.0 AC	350.0*	3	1mA	-	-	  <p style="text-align: center;">LP & LPE</p>	
587B151	130.0 AC	350.0*	3	1mA	-	-		
587B201	130.0 AC	350.0*	3	1mA	-	-		
587B301	130.0 AC	350.0*	3	1mA	-	-		
Note: Maximum Line Current: 5A, 15A, 20A, 30A. Note*: Line to Neutral.								
587B062	240.0 AC	800.0*	3	1mA	-	-		
587B162	240.0 AC	800.0*	3	1mA	-	-		
587B302	240.0 AC	800.0*	3	1mA	-	-		
Note: Maximum Line Current: 6A, 16A, 30A. Note*: Line to Neutral.								
587B051LP	130.0 AC	330.0*	3	1mA	-	-		
587B101LP	130.0 AC	330.0*	3	1mA	-	-		
587B151LP	130.0 AC	330.0*	3	1mA	-	-		
587B301LP	130.0 AC	330.0*	3	1mA	-	-		
Note: Maximum Line Current: 5A, 10A, 15A, 30A. Note*: Line to Neutral.								
587B062LP	240.0 AC	800.0*	3	1mA	-	-		
587B102LP	240.0 AC	800.0*	3	1mA	-	-		
587B162LP	240.0 AC	800.0*	3	1mA	-	-		
587B302LP	240.0 AC	800.0*	3	1mA	-	-		
Note: Maximum Line Current: 6A, 10A, 16A, 30A. Note*: Line to Neutral.								
587B062LPE	240.0 AC	800.0*	3	1mA	-	-		
587B102LPE	240.0 AC	800.0*	3	1mA	-	-		
587B162LPE	240.0 AC	800.0*	3	1mA	-	-		
587B302LPE	240.0 AC	800.0*	3	1mA	-	-		
Note: Maximum Line Current: 6A, 10A, 16A, 30A. Note*: Line to Neutral.								

MODULES – SURGEBUSTERS™ (NOT ROHS COMPLIANT)

PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	CLAMPING VOLTAGE - V_c @ 8/20 μ S	MAX. CURRENT @ 8/20 μ s – kA/Line	LEAKAGE CURRENT - μ A @ V_{WM}	SERIES RESISTANCE OHMS	CAPACITANCE pF	PACKAGE
CX12	± 12.0	24.0 @ 500A	3	5	3	200	
CX12LC	± 12.0	28.0 @ 500A	3	5	10	25	
Note: Lines of protection: 1 line.							
TEL50B	± 50.0	95.0 @ 500A	10	5	12	800	 
TEL50E	± 50.0	95.0 @ 500A	10	5	12	800	
TEL185B	± 185.0	330.0 @ 500A	10	5	12	800	
TEL185E	± 185.0	330.0 @ 500A	10	5	12	800	
Note: Lines of protection: 2 pair.							

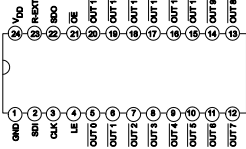
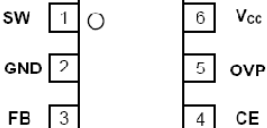
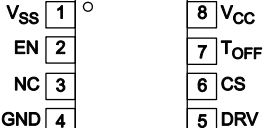
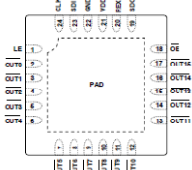
ANALOG SWITCHES

PART NUMBER	OPERATING VOLTAGE - Volts	ON RESISTANCE R_{ON} - Ω	CUT-OFF FREQUENCY MHz	OFF ISOLATION O_{IRR} - db	TURN-ON TIME t_{ON} - ns	TURN-OFF TIME t_{OFF} - ns	CHANNEL-ON (C_{ON}) CAPACITANCE - pF	CHANNEL-OFF (C_{OFF}) CAPACITANCE - pF	CONFIGURATION	PIN CONFIGURATION
PA2011	1.8-5.5	1.8	60	-62	75	37	85	29	1 SPDT	 <p>Top View DFN-6</p> <p>Top View SC70-6L</p>
PA2018	1.8-5.5	4.5	300	-70	48	45	42	40	4 SPDT	 <p>TSSOP-16</p>
PA2034	1.8-5.5	2	-	-55	20	13	67	14	4:1 MUX	 <p>DFN-10</p>
PA2070	2.7-4.2	7	400	-30	13	12	3.7	2.0	DPDT	 <p>LoPRO™-10</p>
PA2222	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	 <p>LoPRO™-10</p>
PA2222T	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	
PA2223	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	 <p>LoPRO™-10</p>
PA2312	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	 <p>(Bottom View) LoPRO™-10</p>

ANALOG SWITCHES

PART NUMBER	OPERATING VOLTAGE - Volts	ON RESISTANCE R_{ON} - Ω	CUT-OFF FREQUENCY MHz	OFF ISOLATION O_{IRR} - db	TURN-ON TIME t_{ON} - ns	TURN-OFF TIME t_{OFF} - ns	CHANNEL-ON (C_{ON}) CAPACITANCE - pF	CHANNEL-OFF (C_{OFF}) CAPACITANCE - pF	CONFIGURATION	PIN CONFIGURATION
PA2268	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	<p>LoPRO™-10</p>
PA2268T	1.8-4.2	0.6	100	-75	15	4	95	35	2 SPDT	
PA2535	1.8-5.5	0.35	-	-69	52	43	406	145	2 SPDT	<p>DFN-10</p>
PA2536	1.8-5.5	0.35	-	-69	52	43	406	145	2 SPDT	<p>DFN-10</p>
PA2983	2.7-4.2	7	1000	-30	13	12	3.7	2.0	1 DPDT	<p>LoPRO™-10</p>
PA3535	1.8-5.5	0.4	-	-69	52	43	406	145	2 SPDT	<p>TOP VIEW 10 BUMP FLIP CHIP</p>
PA3536	1.8-5.5	0.4	-	-69	52	43	406	145	2 SPDT	<p>TOP VIEW 10 BUMP FLIP CHIP</p>
PA4684	1.8-5.5	0.4	-	-69	52	43	406	145	2 SPDT	<p>TOP VIEW 10 BUMP FLIP CHIP</p>
PAUSB42	2.7-4.2	7	1000	-30	13	12	3.7	2.0	1 DPDT	<p>LoPRO™-10</p>

LED DRIVERS

PART NUMBER	OPERATING VOLTAGE - Volts	SWITCHING FREQUENCY - MHz	MAX DUTY CYCLE - %	SWITCH CURRENT LIMIT - mA	MAXIMUM FEEDBACK VOLTAGE - Volts	CHANNELS	PIN CONFIGURATION
PA5026	2.5-5.5	25	-	2-80	-	16	 <p>SSOP-24</p>
PA5110	4.5-20	1.2	90	320	10	1	 <p>SOT-23-6</p>
PA5910	2.5-6.5	2.0	90	20mA-2A	260mV	1	 <p>SO-8</p>
PA5026QN	2.5-5.5	25	-	2-80mA	-	16	 <p>QFN-24</p>

AUDIO-PUNKS

PART NUMBER	OPERATING VOLTAGE - Volts	ATTENUATION dB	MAXIMUM CURRENT mA	ON RESISTANCE $R_{ON} - \Omega$	TOTAL HARMONIC DISTORTION - %	CROSSTALK - dB	VRMS - Volts	PIN CONFIGURATION
PA4101	2.7-5.5	36	500	-	-	-	0.7	<p>SO-14</p>
PA4201	1.5-3.0	45	500	0.55	0.02	-100	0.7	<p>DFN-8</p>
PA4401	9.0-12.0	-	5	0.8	0.02	-100	2	<p>DFN-8 OR SO-8</p>
PA4220	1.5-5.0	-	150	3	0.02	-	3.5	<p>DFN-6/SO-8</p>

AUDIO-CODEC

PART NUMBER	OPERATING VOLTAGE - Volts	SAMPLING LEVEL @ 24 bits - KHZ	SIGNAL-NOISE RATIO - dB	TOTAL HARMONIC DISTORTION + NOISE - dB	SPEAKER AMPLIFIER OUTPUT mW	HP AMPLIFIER OUTPUT mW	PLAYBACK mW	PACKAGE
PA5155	1.7-3.3	8-96	96	-83	-	40	7	QFN-28
Features: I2S or SPI Interface, Fractional PLL, Master/Slave Serial Port, I2S Left Justified DSP/PCM Mode, Stereo Enhancement								
PA5322	3.0-5.5	8-200	95	-90	-	-	-	SSOP-28
Features: 10k Ω Input Impedance, 2VRMS Analog Input Level, I2S or 2-Wire Interface, 4 to 1 MUX Analog Inputs, Digital Volume Control UO to 120dB, I2S Left/Right Justified Mode, ADC PGA 11.5dB to -11.5dB								
PA5331	1.8-3.3	8-96	96	-85	-	40	7-16	QFN-28
Features: I2S or SPI Interface, 3 to 1 MUX Analog Inputs, Master/Slave Serial Port, I2S Left Justified DSP/PCM Mode, Stereo Enhancement								
PA5388	1.8-3.3	8-96	96	-85	-	40	7-16	QFN-29
Features: I2S or SPI Interface, 3 to 1 MUX Analog Inputs, Master/Slave Serial Port, I2S Left Justified DSP/PCM Mode, Stereo Enhancement								
PA5750	1.8-3.3	8-96	92	-85	500	40	-	QFN-32
Features: I2S/SPI Interface, Headphone Detector, Master/Slave Serial Port, I2S Left Justified DSP/PCM Mode, Stereo Enhancement								

AUDIO-DAC

PART NUMBER	OPERATING VOLTAGE - Volts	SAMPLING LEVEL @ 24 bits - KHZ	SIGNAL-NOISE RATIO - dB	TOTAL HARMONIC DISTORTION + NOISE - dB	OUTPUT IMPEDANCE Ω	ANALOG OUTPUT VPP	PACKAGE
PA5134	4.5-5.5	200	95	-85	120	3.5	SO-8
PA5134LV	3.0-5.0	200	95	-85	120	3.5	SO-8
PA5144	4.5-5.5	200	95	-85	120	3.5	TSSOP-10
PA5144LV	3.0-5.0	200	95	-85	120	3.5	TSSOP-10

Features: Line Amplifier, I2S Interface

AUDIO-ADC

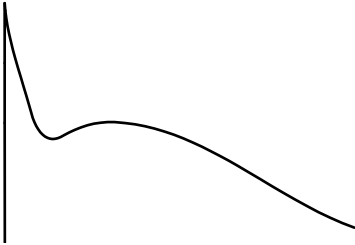
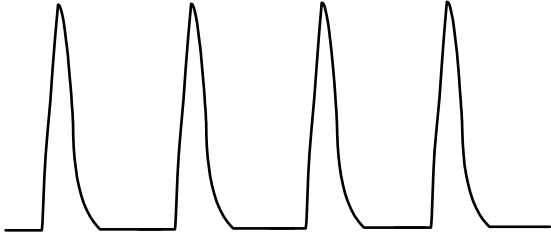

PART NUMBER	OPERATING VOLTAGE - Volts	SAMPLING LEVEL @ 24 bits - KHZ	SIGNAL-NOISE RATIO - dB	TOTAL HARMONIC DISTORTION + NOISE - dB	OUTPUT IMPEDANCE K Ω	ANALOG INPUT VRMS	PACKAGE
PA5240	3.0-5.5	200	95	-85	20	1	TSSOP-16

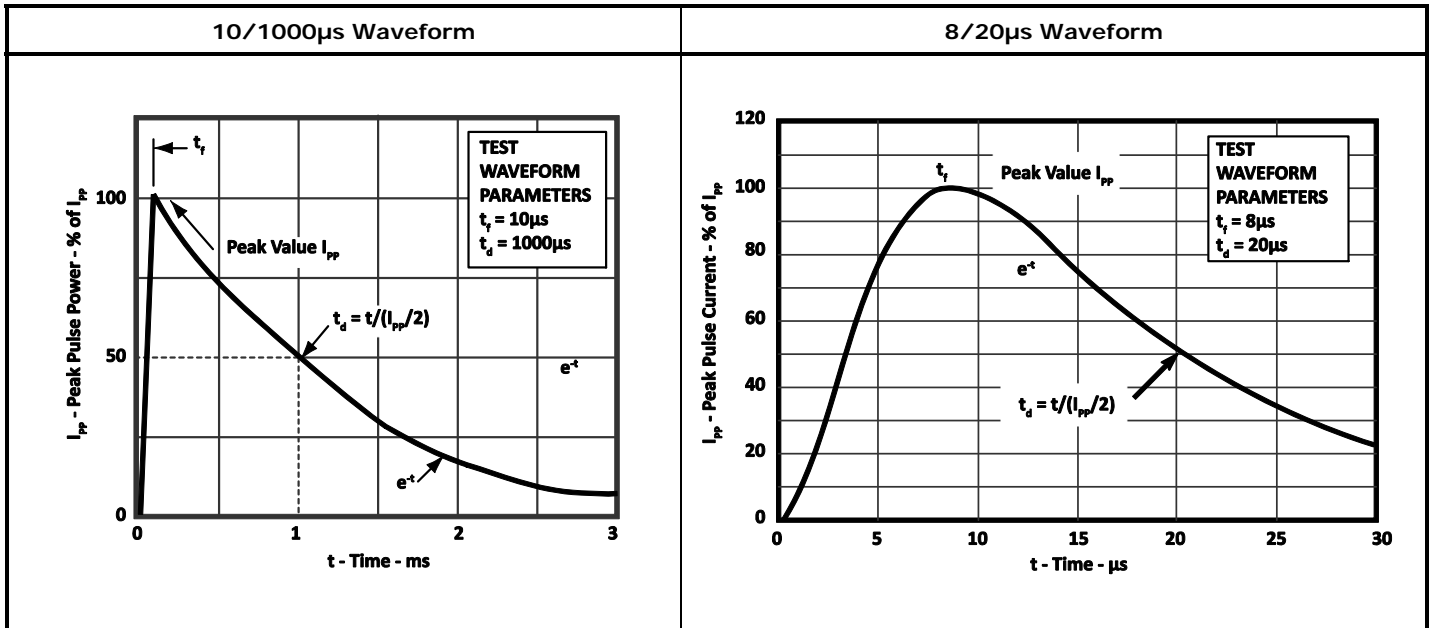
Features: I2S, IJ 24 Bit Interface

AUDIO-FM TRANSMITTER

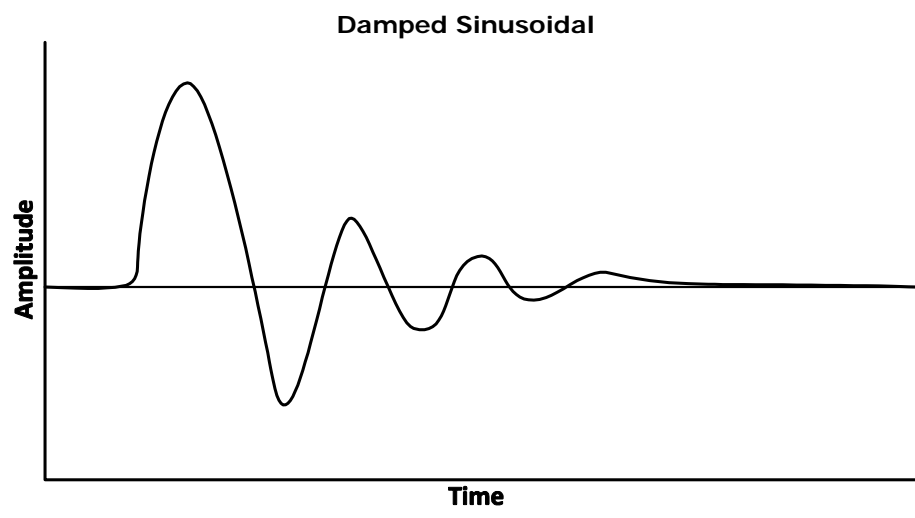
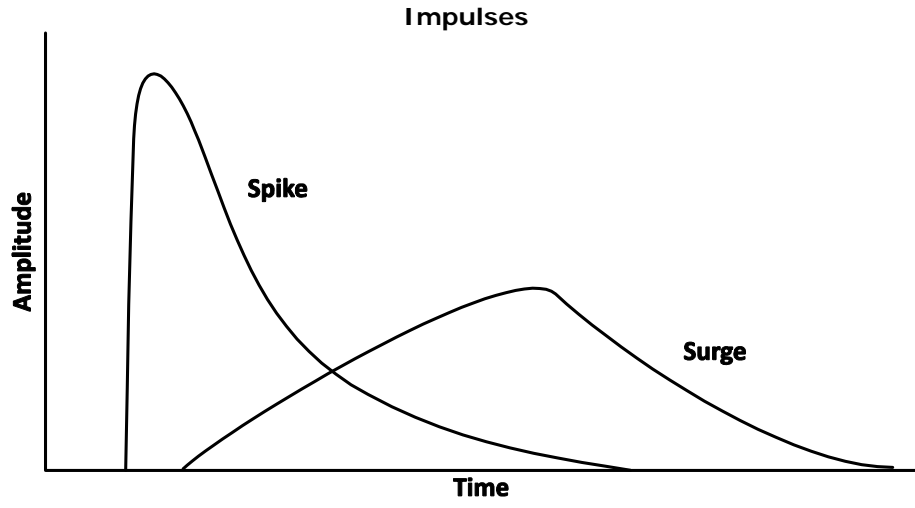
PART NUMBER	OPERATING FREQUENCY - MHz	CHANNEL SEPERATION - dB	PILOT MODULATION %	TOTAL HARMONIC DISTORTION - %	SUPPLY VOLTAGE Volts	INPUT GAIN - dB	SUB CARRIER REJECTION - dB	PRE-EMPHASIS TC μ S	TX OUTPUT - dB μ V	QUICIENT CURRENT mA	PACKAGE
PA1418	70-120	40	15	0.01	4-6	0	30	50	99	18	TSSOP-24

Features: Stabilized PLL

International Standard	Environmental Threat	Transient Characteristics	Test Waveform
61000-4-2	ESD	Super Fast < 1ns Low Energy	
61000-4-4	EFT	Fast 5 ns Medium Energy (per burst)	
61000-4-5	Surge	Surge 10-700 μs High Energy	



IMPULSE WAVE FORMS – UNIVERSAL WAVESHAPES



Peak Pulse Current (Amplitude)	$I_t = I_{PP} = 10, 100, 1000 \text{ Amp}$
Pulse Duration (Time) - Spike	$t_d = 30\text{ns (ESD)}$
Pulse Duration (Time) - Transient	$t_d = 20 \text{ or } 1000\mu\text{s (Lightning)}$
Pulse Duration (Time) - Surge	$t_d = 100\text{ms (Switching)}$

PRODUCT PACKAGING SCALED 1" - 1"



0201
Width: 0.012" (0.30)
Length: 0.024" (0.60)
Height: 0.012" (0.28)
LD Pitch: N/A
Pad Count: 2



0402/U0402
Width: 0.019" (0.48)
Length: 0.039" (1.00)
Height: 0.016" (0.40)
LD Pitch: N/A
Pad Count: 2



0404/U0404
Width: 0.039" (1.00)
Length: 0.039" (1.00)
Height: 0.016" (0.40)
LD Pitch: 0.020" (0.50)
Pad Count: 4



0406/U0406
Width: 0.039" (1.00)
Length: 0.059" (1.50)
Height: 0.016" (0.40)
LD Pitch: 0.020" (0.50)
Pad Count: 6



0408/U0408
Width: 0.039" (1.00)
Length: 0.079" (2.00)
Height: 0.016" (0.40)
LD Pitch: 0.020" (0.50)
Pad Count: 8



0502
Width: 0.030" (0.76)
Length: 0.050" (1.27)
Height: 0.030" (0.76)
LD Pitch: N/A
Pad Count: 2



5 Bump FC
Width: 0.039" (1.00)
Length: 0.052" (1.32)
Height: 0.016" (0.40)
LD Pitch: 0.020" (0.50)
Pad Count: 5



10 Bump FC
Width: 0.052" (1.33)
Length: 0.078" (1.981)
Height: 0.015" (0.39)
LD Pitch: 0.020" (0.50)
Pad Count: 10



15 Bump FC
Width: 0.052" (1.33)
Length: 0.116" (2.96)
Height: 0.015" (0.39)
LD Pitch: 0.020" (0.50)
Pad Count: 15



DFN-2
Width: 0.024" (0.61)
Length: 0.040" (1.02)
Height: 0.020" (0.50)
LD Pitch: N/A
Pad Count: 2



DFN-2T
Width: 0.024" (0.61)
Length: 0.040" (1.02)
Height: 0.015" (0.38)
LD Pitch: N/A
Pad Count: 2



DFN-3
Width: 0.047" (1.20)
Length: 0.047" (1.20)
Height: 0.020" (0.50)
LD Pitch: N/A
Pad Count: 3



DFN-4
Width: 0.024" (0.61)
Length: 0.040" (1.02)
Height: 0.020" (0.50)
LD Pitch: N/A
Pad Count: 4



DFN-6
Width: 0.063" (1.60)
Length: 0.063" (1.60)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 6



DFN-8
Width: 0.079" (2.00)
Length: 0.079" (2.00)
Height: 0.031" (0.80)
LD Pitch: 0.020" (0.50)
Pad Count: 8



DFN-8LP
Width: 0.063" (1.60)
Length: 0.079" (2.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 8



DFN-8SLP
Width: 0.053" (1.35)
Length: 0.067" (1.70)
Height: 0.022" (0.55)
LD Pitch: 0.016" (0.40)
Pad Count: 8



DFN-10
Width: 0.118" (3.00)
Length: 0.118" (3.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 10



DFN-12
Width: 0.063" (1.60)
Length: 0.118" (3.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 12



DFN-12LP
Width: 0.063" (1.60)
Length: 0.118" (3.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 12



DFN-12SLP
Width: 0.053" (1.35)
Length: 0.098" (2.50)
Height: 0.022" (0.55)
LD Pitch: 0.016" (0.40)
Pad Count: 12



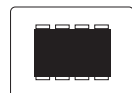
DFN-16
Width: 0.063" (1.60)
Length: 0.158" (4.00)
Height: 0.030" (0.75)
LD Pitch: 0.020" (0.50)
Pad Count: 16



DFN-16LP
Width: 0.063" (1.60)
Length: 0.157" (4.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 16



DFN-16SLP
Width: 0.063" (1.60)
Length: 0.157" (4.00)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pad Count: 16



DIP-8
Width: 0.250" (6.35)
Length: 0.400" (10.16)
Height: 0.140" (3.56)
LD Pitch: 0.100" (2.54)
Pin Count: 8

PRODUCT PACKAGING SCALED 1" - 1"



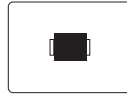
DIP-14

Width: 0.250" (6.35)
Length: 0.750" (19.05)
Height: 0.140" (3.55)
LD Pitch: 0.100" (2.54)
Pin Count: 14



DIP-16

Width: 0.250" (6.35)
Length: 0.780" (19.81)
Height: 0.140" (3.55)
LD Pitch: 0.100" (2.54)
Pin Count: 16



DO-214AA

Width: 0.17" (4.32)
Length: 0.143" (3.62)
Height: 0.089" (2.25)
LD Pitch: N/A
Pin Count: 2



LoPro™

Width: 0.051" (1.30)
Length: 0.063" (1.60)
Height: 0.030" (0.75)
LD Pitch: 0.020" (0.50)
Pad Count: 10



Quad/Penta

Width: 0.039" (1.00)
Length: 0.059" (1.50)
Height: 0.016" (0.40)
LD Pitch: 0.020" (0.50)
Pad Count: 6



QFN-32

Width: 0.20" (5.00)
Length: 0.20" (5.00)
Height: 0.035" (0.90)
LD Pitch: 0.020" (0.50)
Pad Count: 32



SC-70-5L

Width: 0.050" (1.27)
Length: 0.079" (2.01)
Height: 0.035" (0.89)
LD Pitch: 0.025" (0.64)
Pin Count: 5



SC-70-6L

Width: 0.050" (1.27)
Length: 0.079" (2.01)
Height: 0.035" (0.89)
LD Pitch: 0.025" (0.64)
Pin Count: 6



SC-79

Width: 0.032" (0.81)
Length: 0.048" (1.22)
Height: 0.025" (0.64)
LD Pitch: N/A
Pin Count: 2



SOD-323

Width: 0.051" (1.30)
Length: 0.69" (1.75)
Height: 0.035" (0.90)
LD Pitch: N/A
Pin Count: 2



SOD-723

Width: 0.024" (0.61)
Length: 0.040" (1.02)
Height: 0.022" (0.55)
LD Pitch: N/A
Pin Count: 2



SOD-923

Width: 0.024" (0.60)
Length: 0.039" (1.00)
Height: 0.015" (0.37)
LD Pitch: N/A
Pin Count: 2



SOT-143

Width: 0.50" (1.27)
Length: 0.115" (2.92)
Height: 0.040" (1.02)
LD Pitch: 0.075" (1.90)
Pin Count: 4



SOT-23

Width: 0.065" (1.65)
Length: 0.115" (2.92)
Height: 0.040" (1.01)
LD Pitch: 0.037" (0.95)
Pad Count: 3



SOT-23-6

Width: 0.065" (1.65)
Length: 0.115" (2.92)
Height: 0.043" (1.09)
LD Pitch: 0.037" (0.95)
Pin Count: 6



SOT-543

Width: 0.047" (1.19)
Length: 0.063" (1.60)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pin Count: 4



SOT-553

Width: 0.047" (1.19)
Length: 0.063" (1.60)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pin Count: 5



SOT-563

Width: 0.047" (1.19)
Length: 0.063" (1.60)
Height: 0.022" (0.55)
LD Pitch: 0.020" (0.50)
Pin Count: 6



SOT-953

Width: 0.031" (0.79)
Length: 0.039" (1.00)
Height: 0.018" (0.46)
LD Pitch: 0.015" (0.38)
Pin Count: 5



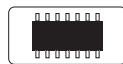
SOT-963

Width: 0.031" (0.79)
Length: 0.039" (1.00)
Height: 0.018" (0.46)
LD Pitch: 0.015" (0.38)
Pin Count: 6



SO-8

Width: 0.192" (4.90)
Length: 0.23" (6.00)
Height: 0.057" (1.44)
LD Pitch: 0.050" (1.27)
Pin Count: 8



SO-14

Width: 0.154" (3.90)
Length: 0.34" (8.63)
Height: 0.061" (1.55)
LD Pitch: 0.050" (1.27)
Pin Count: 14



SO-16

Width: 0.154" (3.90)
Length: 0.390" (9.90)
Height: 0.061" (1.55)
LD Pitch: 0.050" (1.27)
Pin Count: 16



SO-16WB

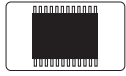
Width: 0.295" (7.50)
Length: 0.405" (10.30)
Height: 0.097" (2.46)
LD Pitch: 0.050" (1.27)
Pin Count: 16



SO-20WB

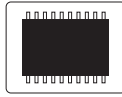
Width: 0.295" (7.50)
Length: 0.505" (12.82)
Height: 0.100" (2.54)
LD Pitch: 0.050" (1.27)
Pin Count: 20

PRODUCT PACKAGING SCALED 1" - 1"



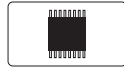
SSOP-24

Width: 0.24" (6.0)
Length: 0.34" (8.65)
Height: 0.062" (1.57)
LD Pitch: 0.025" (0.64)
Pin Count: 24



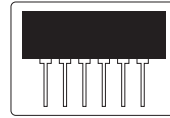
SSOP-20

Width: 0.29" (7.45)
Length: 0.45" (11.5)
Height: 0.098" (2.5)
LD Pitch: 0.050" (1.27)
Pin Count: 20



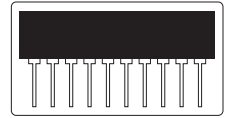
TSSOP-16

Width: 0.20" (5.0)
Length: 0.17" (4.4)
Height: 0.043" (1.1)
LD Pitch: 0.026" (0.65)
Pin Count: 16



VSIP-6

Width: 0.250" (6.35)
Length: 0.705" (19.05)
Height: 0.130" (0.33)
LD Pitch: 0.100" (2.54)
Pin Count: 6



VSIP-10

Width: 0.250" (6.35)
Length: 1.020" (25.90)
Height: 0.130" (0.33)
LD Pitch: 0.100" (2.54)
Pin Count: 10

COMPANY PROFILE

ProTek Devices, based in Tempe, Arizona USA, is a manufacturer of Transient Voltage Suppression (TVS) products designed specifically for the protection of electronic systems from the effects of lightning, Electrostatic Discharge (ESD), Nuclear Electromagnetic Pulse (NEMP), inductive switching and EMI/RFI. With over 25 years of engineering and manufacturing experience, ProTek designs TVS devices that provide application specific protection solutions for all electronic equipment/systems.

ProTek Devices Analog Products Division, also manufactures analog interface, control, RF and power management products. More information regarding analog products can be found at www.protekanalog.com.

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