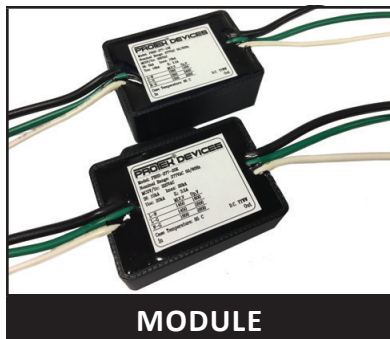


3 POLE LED DRIVER & BALLAST PROTECTION MODULE



DESCRIPTION

The PBSS Series connection modules are designed to be used to protect LED drivers and ballast. These devices provide an additional level of protection against transients induced in the power line by lightning and inductive switching, in industrial and commercial applications.

FEATURES

- Meets ANSI C136.2 / IEEE C62.41.2 Location Category C High Exposure Requirement
- IP66 Waterproof and Dustproof
- Meets UL1449 Type 4 Component Assembly Requirement
- Meets IEC 61643-11 Class II / EN61643-11 Type 2 Standard Requirement
- Meets CE Class I & II Installation Requirement
- Compact Form Factor With Mounting Tabs
- Thermally Protected
- Protects Line to Neutral, Line to Ground and Neutral to Ground in Accordance with IEEE/ANSI C62.41.2 Guidelines
- Surge Current 20,000 Amps @ 8/20 μ s Waveform
- High Temperature Flameproof Plastic Enclosure
- Maximum Temperature Rating of 85°C
- 10kA and 20kA Max Ratings (1 Shot)

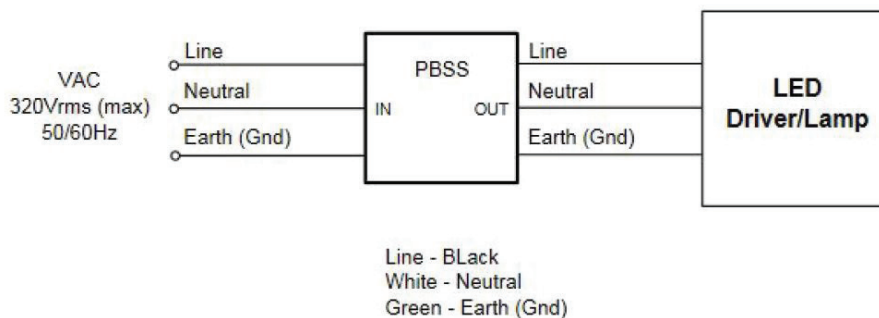
APPLICATIONS

- LED Drivers
- Universal Voltage Ballast

MECHANICAL CHARACTERISTICS

- High Temperature Flameproof Plastic Enclosure
- Maximum Temperature Raing of 85°C (Surface)
- Approximate Weight: 100 grams
- Flammability Rating UL 94V-0
- Marking: Logo, Part Number, Device Information

APPLICATION



TYPICAL DEVICE CHARACTERISTICS
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Current (tp = 8/20μs)	I_{PP}	20,000	Amps
Operating Temperature	T_L	-40 to 85	°C
Storage Temperature	T_{STG}	-40 to 85	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER	OPERATING VOLTAGE (VAC) 50/60Hz	LINE CURRENT I_L AMPS	MCOV (VAC)	MAXIMUM DISCHARGE CURRENT I_{MAX} kA	NOMINAL DISCHARGE CURRENT I_{MAX} kA	MLV, V		UP (V)
						L-N	L-E(GND)	
PBSS-277-10KA	277	3.5	320	10	5	L-N	1260	1400
						L-E(GND)	1260	2400
						N-E(GND)	1300	2200
PBSS-277-20KA				20	10	L-N	1450	1600
						L-E(GND)	1450	2800
						N-E(GND)	1600	2600

TYPICAL DEVICE CHARACTERISTICS

FIGURE 1
PULSE WAVE FORM

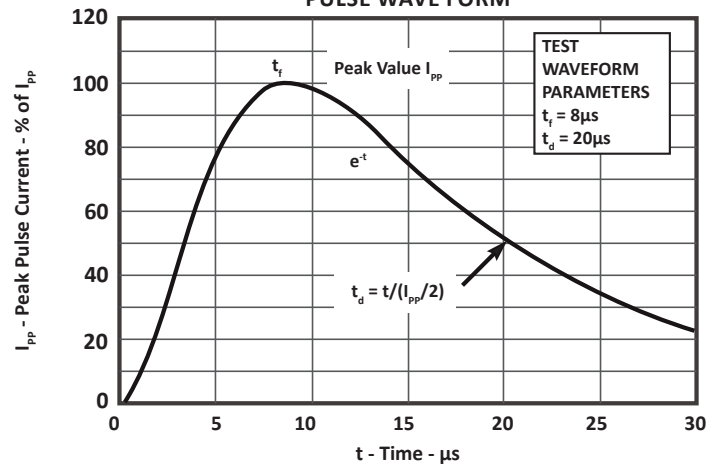
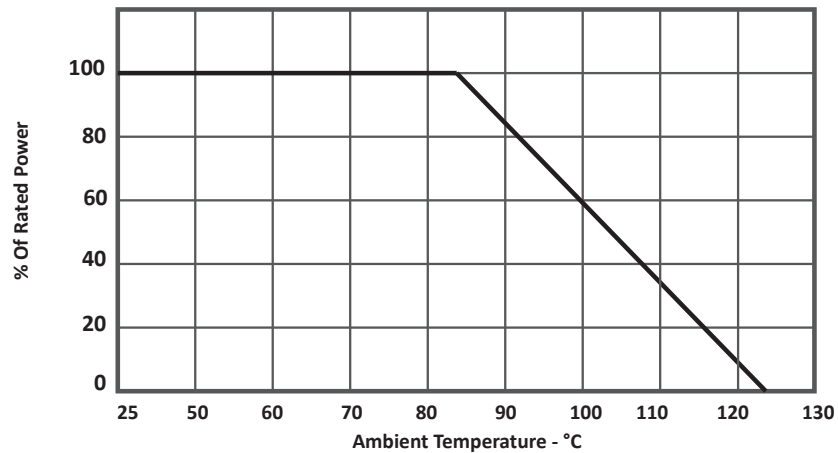
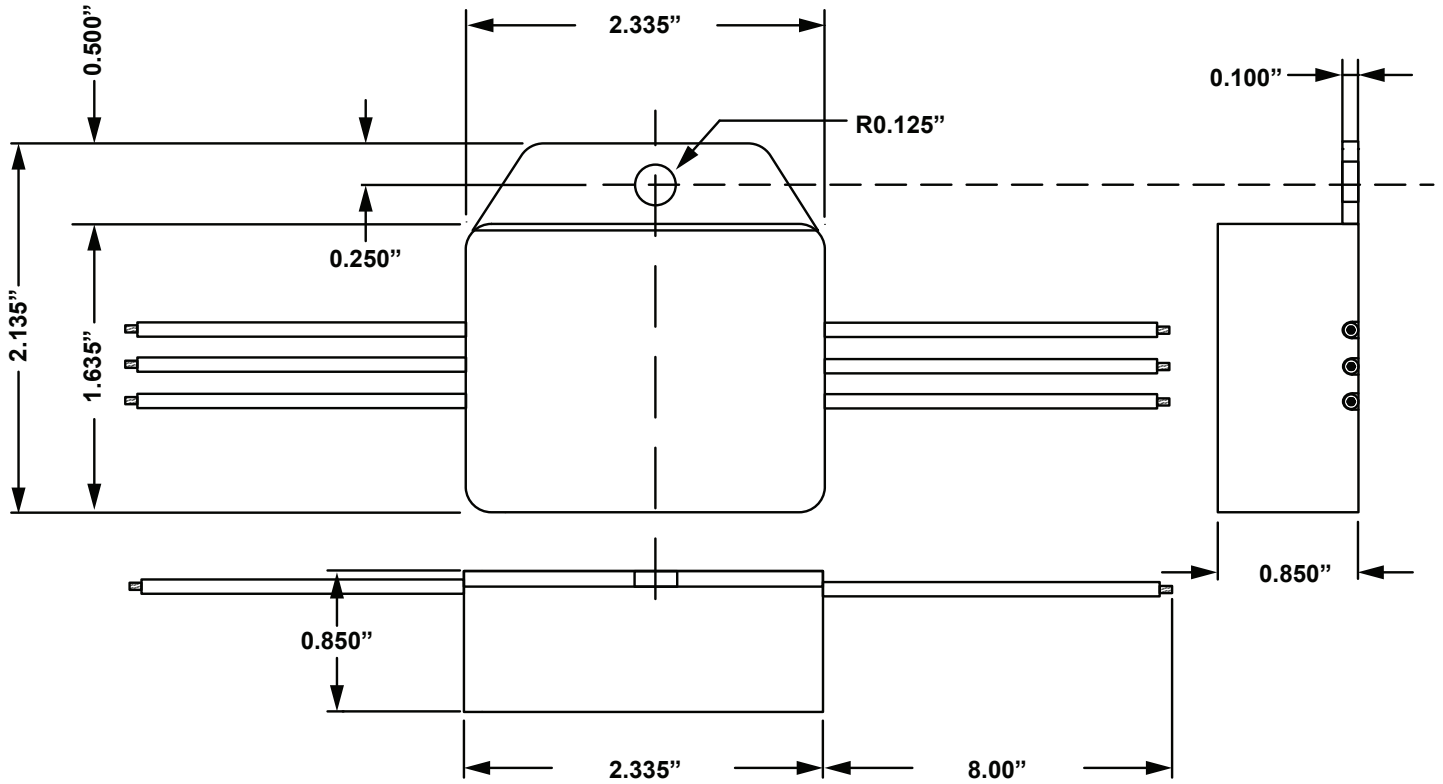


FIGURE 2
POWER DERATING CURVE



PACKAGE INFORMATION



COMPANY INFORMATION

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products.

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