

BIDIRECTIONAL TVS DIE

APPLICATIONS

- LED Protection

FEATURES

- Compatible with IEC 61000-4-2 (ESD): Contact $\pm 8\text{kV}$

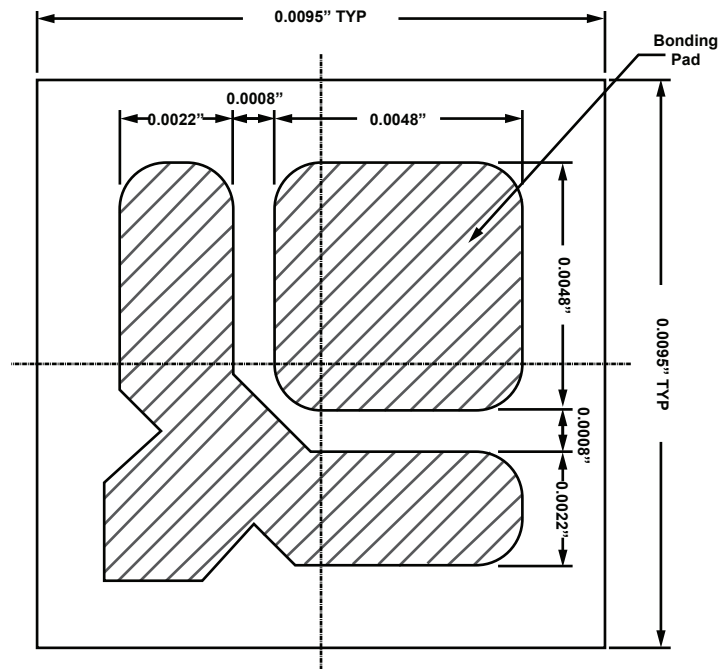
PIN CONFIGURATION



ELECTRICAL CHARACTERISTICS @ 25°C

PART NUMBER	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	STAND-OFF VOLTAGE V_{WM} VOLTS	MAXIMUM LEAKAGE CURRENT @ 3.5V I_D μA	MAXIMUM CLAMPING VOLTAGE 10/1000 μs @ $I_P = 1\text{A}$ V_C VOLTS	TYPICAL CAPACITANCE @ 0V, 1MHz C pF	THICKNESS mils	BACKMETAL	TOPMETAL
PLED511	5.70	4.7	1.00	13.0	15	6	Ti/Ni/Ag	Al/Cu

MASK OUTLINE



Controlling Dimension: Inches

TYPICAL DEVICE CHARACTERISTICS

FIGURE 1
8kV POSITIVE ESD CLAMPING WAVEFORM



FIGURE 2
8kV NEGATIVE ESD CLAMPING WAVEFORM



COMPANY INFORMATION

COMPANY PROFILE

In business more than 25 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. ProTek Devices is ISO 9001:2015 certified.

CONTACT US

Corporate Headquarters

2929 South Fair Lane
Tempe, Arizona 85282
USA

By Telephone

General: 602-431-8101
Sales: & Marketing: 602-414-5109
Customer Service: 602-414-5114
Product Technical Support: 602-414-5107

By Fax

General: 602-431-2288

By E-mail:

Asia Sales: asiasales@protekdevices.com
Europe Sales: europesales@protekdevices.com
U.S. Sales: ussales@protekdevices.com
Distributor Sales: distysales@protekdevices.com
Customer Service: service@protekdevices.com
Technical Support: support@protekdevices.com

ProTek Devices (Asia Pacific) Pte. Ltd.

8 Ubi Road 2, #06-19
Zervex
Singapore - 408538
Tel: +65-67488312
Fax: +65-67488313

Web

www.protekdevices.com

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