

3 POLE LED DRIVER & BALLAST PROTECTION MODULE

DESCRIPTION

The PBSP-10K Series is designed to be used in conjunction with LED drivers, electric fluorescent and HID ballasts to provide an additional level of protection against power line disturbances in industrial and commercial applications.

FEATURES

- Meets ANSI C136.2 / IEEE C62.41.2 Location Category C High Exposure
- IP66 Waterproof and Dustproof
- Compliance to UL1449 Type 4 Component Assembly
- Compliance to IEC 61643-11 Class II / EN61643-11 Type 2
- Compliance to CE Class I & II Installation
- Compact Form Factor With Mounting Tabs
- UL Approved: E475235
- Protects Line to Neutral, Line to Ground and Neutral to Ground in Accordance with IEEE/ANSI C62.41.2 Guidelines
- Surge Current 10,000 Amps @ 8/20µs Waveform
- High Temperature Flameproof Plastic Enclosure
- Maximum Temperature Rating of 85°C
- Pulse Rating @ 8/20μs (No. of Strikes @ I):

1 @ 10,000A

2 @ 6,500A

10 @ 3,000A

1000 @ 1,500A

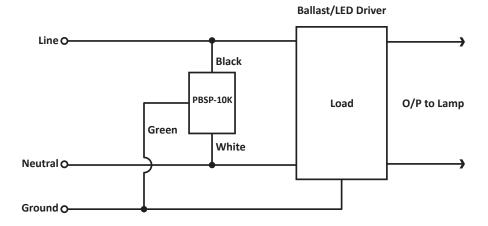
APPLICATIONS

- LED Drivers
- Universal Voltage Ballast

MECHANICAL CHARACTERISTICS

- High Temperature Flameproof Plastic Enclosure
- Maximum Temperature Raing of 85°C (Surface)
- Approximate Weight: 116 grams
- Flammability Rating UL 94V-0
- Marking: Logo, Part Number, Device Information

APPLICATION

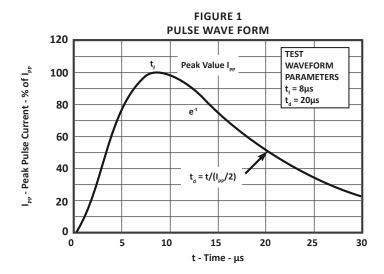


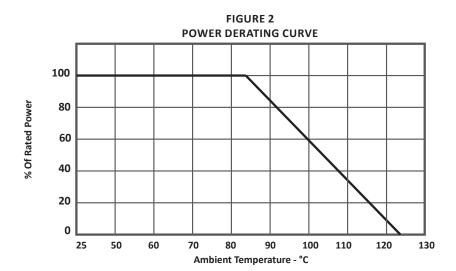
TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified						
PARAMETER	SYMBOL	VALUE	UNITS			
Peak Pulse Current (tp = 8/20μs)	I _{PP}	10,000	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	RATED STAND-OFF VOLTAGE V _{WM} VOLTS AC	ENERGY @2ms W _v 1 X PULSE JOULES	MAXIMUM PEAK PULSE CURRENT (8/20μs) I _{PP} AMPS	MAXIMUM CLAMPING VOLTAGE (Fig. 1) @ I _p = 100A V _c VOLTS	TYPICAL CAPACITANCE @0V, 1MHz C pF		
PBSP-120-10K	120	275	10000	660	1500		
PBSP-220-10K	220	440	10000	1350	750		
PBSP-240-10K	240	460	10000	1355	740		
PBSP-277-10K	277	500	10000	1400	720		
PBSP-380-10K	380	565	10000	1680	600		

TYPICAL DEVICE CHARACTERISTICS

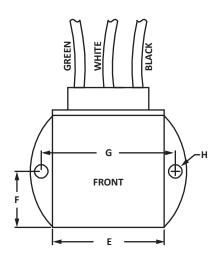


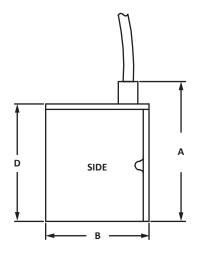


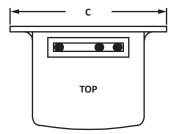
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PACKAGE INFORMATION

SOLDER PAD OUTLINE DIMENSIONS							
DIM	INCHES		MILIMETERS				
	MIN	MAX	MIN	MAX			
Α	1.95	1.99	49.5	50.5			
В	1.44	1.48	36.5	37.5			
С	2.18	2.22	55.5	56.5			
D	1.63	1.67	41.5	42.5			
Е	1.55	1.59	39.5	40.5			
F	0.77	0.81	19.5	20.5			
G	1.87	1.91	47.5	48.5			
Н	0.19	0.21	4.8	5.2			







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 high performance interface and linear products. They include analog switches; multiplexers; LED drivers; LED wafer die for ESD protection; audio control ICs; RF and related high frequency products.

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