HIGH ENERGY - EXTENDED PULSE TVS

RTCA DO-160G COMPLIANT PRODUCT



DESCRIPTION

The GPZ1275B60K is a high power, bidirectional, transient voltage suppressor (TVS) designed to provide protection against long duration switching transient threats. This heavy duty device is constructed using hermetically sealed TVS subassemblies and is suited for AC/DC applications.

FEATURES

• RTCA DO-160G COMPLIANT PRODUCT

- Compatible with IEC 61000-4-5 (Surge): 95A, 8/20μs Level 3(Line-Gnd) & Level 4(Line-Line)
- MIL-STD-1275 Compliant
- 60,000 Watts Peak Pulse Power per Line (tp = 1ms)
- High Average Power Dissipation
- Superior Heat Dissipation Capability
- Each Device 100% Tested

MECHANICAL CHARACTERISTICS

- Hermetically Sealed Sub-Assemblies
- Approximate Weight: 65 grams
- Flammability Rating UL 94V-0

APPLICATIONS

• AC/DC Power Protection

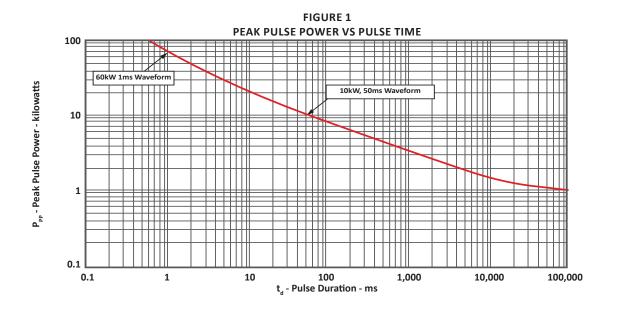
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified						
PARAMETER	SYMBOL	VALUE	UNITS			
Peak Pulse Power (tp = 1ms) - See Figure 1	P _{pp}	60	kilowatts			
Operating Temperature	T _L	-55 to 150	°C			
Storage Temperature	T _{STG}	-55 to 150	°C			
Steady State Power Dissipation (derate 2.33W/°C)	T _A	700	Watts			

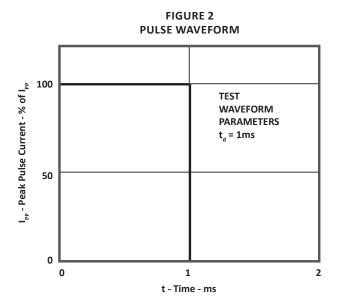
	ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE		MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (Fig. 2)
	V _{wm} VOLTS	V _(BR) VOLTS	@І _т mA	@ I _{PPM} V _C VOLTS	@V _{wм} Ι _D μΑ	I _{PPM} AMPS
GPZ1275B60K	28	32	30	55	60	1000

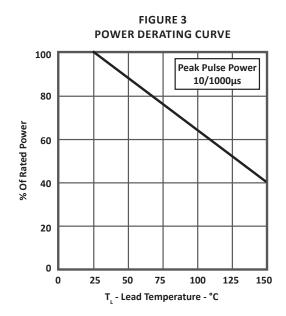
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TYPICAL DEVICE CHARACTERISTICS

RTCA DO-160G COMPLIANT PRODUCT



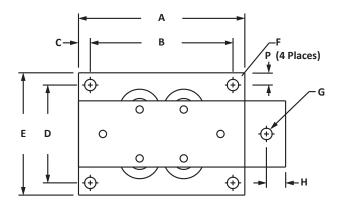


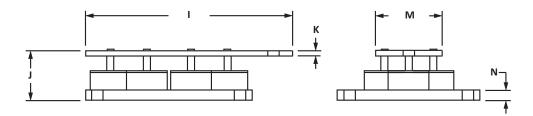


PACKAGE INFORMATION

RTCA DO-160G COMPLIANT PRODUCT

OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
ווווט	MIN	MAX	MIN	MAX	
Α	51.56	52.07	2.03	2.05	
В	44.12	44.70	1.74	1.76	
С	3.55	3.81	0.14	0.15	
D	30.23	30.73	1.19	1.21	
Е	37.84	38.35	1.49	1.51	
F	3.56 DIA		0.14 DIA		
G	6.02 DIA		0.237 DIA		
Н	5.84	6.10	0.23	0.24	
I	64.26	64.77	2.53	2.55	
J	-	17.01	-	0.67	
К	1.52	1.78	0.060	0.070	
М	20.57	20.82	0.810	0.820	
N	3.05	3.30	0.120	0.130	
Р	3.68	3.94	0.145	0.155	





ORDERING INFORMATION	
BASE PART NUMBER	MARKING
GPZ1275B60K	Logo, Date Code, and Part Number

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COMPANY INFORMATION

RTCA DO-160G COMPLIANT PRODUCT

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 an ISO 9001 certified company.

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