HIGH ENERGY - EXTENDED PULSE TVS



DESCRIPTION

The GPZ1275 is a high power 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 DC applications that include heavy duty motors, generators, or where DC power is being switched on and off at frequent intervals.

FEATURES

- Compatible with IEC 61000-4-5 (Surge): 95A, 8/20μs Level 3(Line-Gnd) & Level 4(Line-Line)
- MIL-STD-1275 Compliant
- 30,000 Watts Peak Pulse Power per Line (tp = 1ms)
- High Average (DC) Power Dissipation
- Superior Heat Dissipation Capability
- Each Device 100% Tested
- CE Compliant

MECHANICAL CHARACTERISTICS

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

APPLICATIONS

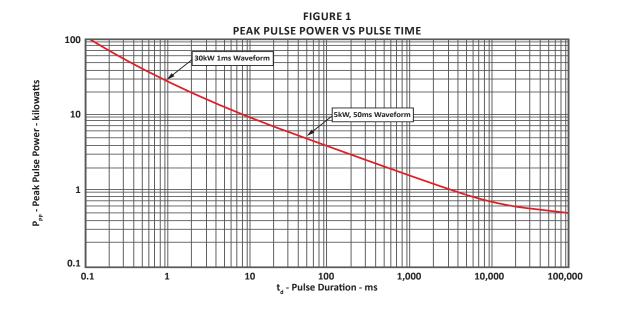
- Remote DC Power Supply, Base Station & Microwave Protection
- MIL-STD-1275 Power Bus Protection
- Electric Drive Motors & Controls
- Mobile Electronics Operating in Harsh Environments

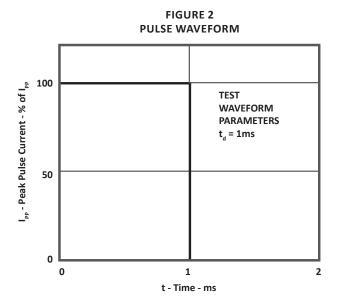
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified				
PARAMETER	SYMBOL	VALUE	UNITS	
Peak Pulse Power (tp = 1ms) - See Figure 1	P _{pp}	30	kilowatts	
Operating Temperature	T _L	-55 to 150	°C	
Storage Temperature	T _{stg}	-55 to 150	°C	
Steady State Power Dissipation (derate 2.33W/°C)	T _A	350	Watts	

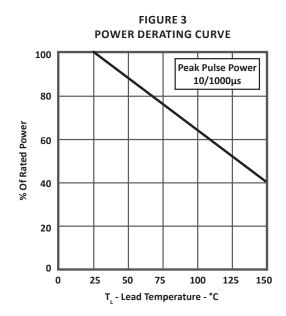
PART NUMBER (Note 1)	RATED STAND-OFF VOLTAGE	BREAK	MUM DOWN FAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (Fig. 2)
	V _{wm} VOLTS	V _(BR) VOLTS	@І _т mA	@ I _{PPM} V _c VOLTS	@V _{wм} Ι _D μΑ	I _{PPM} AMPS
GPZ1275	28	32	30	55	60	500

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TYPICAL DEVICE CHARACTERISTICS

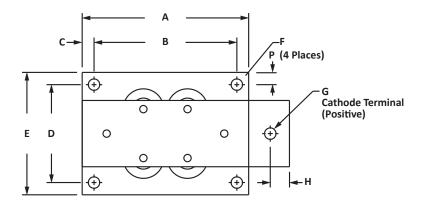


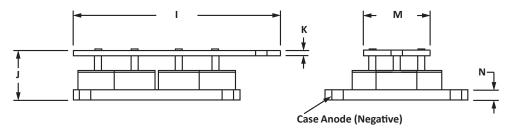




PACKAGE INFORMATION

OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INC	HES	
DIIVI	MIN	MAX	MIN	MAX	
Α	51.56	52.07	2.03	2.65	
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
GPZ1275	Logo, Date Code, and Part Number



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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