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

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

MECHANICAL CHARACTERISTICS

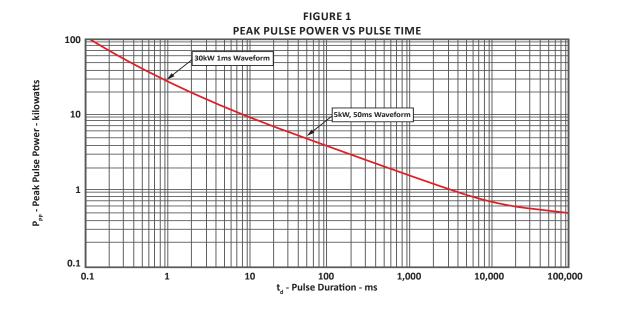
- Hermetically Sealed Sub-Assemblies
- Approximate Weight: 65 grams
- Flammability Rating UL 94V-0

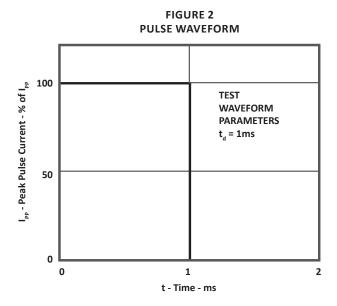
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified				
PARAMETER	SYMBOL	VALUE	UNITS	
Peak Pulse Power (tp = 1ms) - See Figure 1	P _{pp}	30	kilowatts	
Operating Temperature	T _L	-55 to 150	°C	
Storage Temperature	T _{stg}	-55 to 150	°C	
Steady State Power Dissipation (derate 2.33W/°C)	T _A	350	Watts	

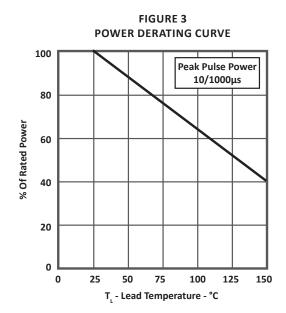
PART NUMBER (Note 1)	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE		MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (Fig. 2)
	V _{wm} VOLTS	V _(BR) VOLTS	@۱ _۲ mA	@ I _{PPM} V _C VOLTS	@V _{wм} Ι _D μΑ	I _{PPM} AMPS
GPZ1275	28	32	30	55	60	500

1. Maximum VF = 3.5V @ 100A, 8.3ms (sine wave).

TYPICAL DEVICE CHARACTERISTICS



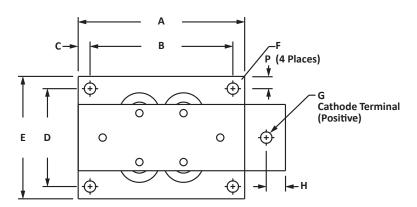


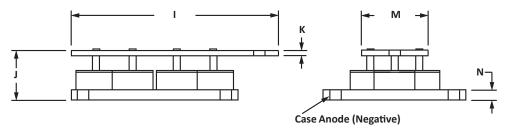




PACKAGE INFORMATION

OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
ווועו	MIN	MAX	MIN	MAX	
А	49.28	54.36	1.94	2.14	
В	43.18	45.72	1.70	1.80	
С	3.56	3.81	0.14	0.15	
D	27.94	33.02	1.10	1.30	
Е	35.56	40.64	1.40	1.60	
F	3.30 DIA.	3.81 DIA.	0.13 DIA.	0.15 DIA.	
G	5.84 DIA.	6.10 DIA.	0.23 DIA.	0.24 DIA.	
Н	5.84	6.10	0.23	0.24	
I	64.26	64.77	2.53	2.55	
J	-	17.02	-	0.67	
K	1.52	1.78	0.060	0.070	
М	20.57	20.83	0.810	0.820	
N	3.05	3.30	0.120	0.130	
Р	3.56	4.06	0.140	0.160	





ORDERING INFORMATION		
BASE PART NUMBER	MARKING	
GPZ1275	Logo, Date Code, and Part Number	
Package outline per document number 06034.R1 9/09		



COMPANY INFORMATION

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately-held company located in Tempe, Arizona, that offers a product line of transient voltage suppressors (TVS); avalanche breakdown diodes; steering diode TVS arrays and other surge suppressor component products. These TVS devices protect electronic systems from the effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulses (NEMP), inductive switching and EMI / RFI. ProTek Devices also offers high performance interface and linear products that include analog switches; multiplexers; LED drivers; audio control ICs; RF and related high frequency products. The analog devices work in a host of consumer; industrial; automotive and other applications.

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