



**GPZ532
&
GPZ1275**

HIGH ENERGY - EXTENDED PULSE TVS

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

IEC COMPATIBILITY (EN61000-4)

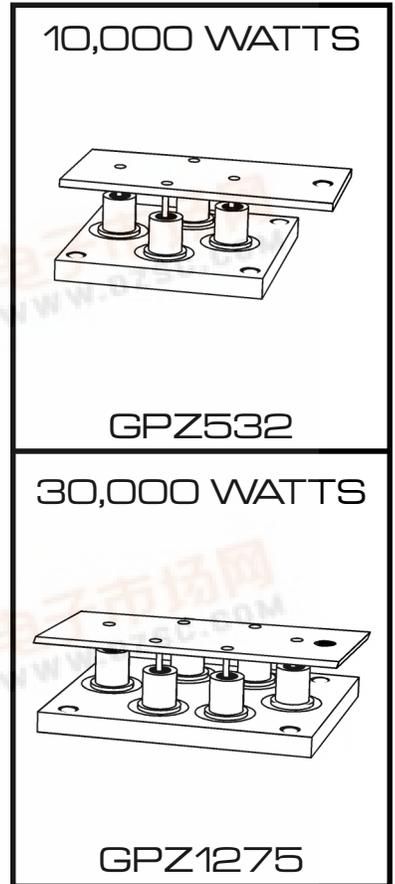
- ✓ 61000-4-5 (Surge): 95A, 8/20µs - Level 3(Line-Gnd) & Level 4(Line-Line)

FEATURES

- ✓ *Meets MIL-STD-1275 Military Specification*
- ✓ 10 & 30 kilowatts Peak Pulse Power per Line ($t_p=1ms$)
- ✓ Each Device 100% Tested
- ✓ High Average (DC) Power Dissipation
- ✓ Superior Heat Dissipation Capability
- ✓ Small Package Size

MECHANICAL CHARACTERISTICS

- ✓ Hermetically Sealed Sub-Assemblies
- ✓ Weight 38 grams - GPZ532 & 65 grams - GPZ1275 (Approximate)
- ✓ Device Marking: Logo & Part Number



MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p = 1ms$) - See Figure 1	P_{PP}	10 & 30	kilowatts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Steady State Power Dissipation @ 25°C (derate 2.33W/°C)	T_A	350	Watts

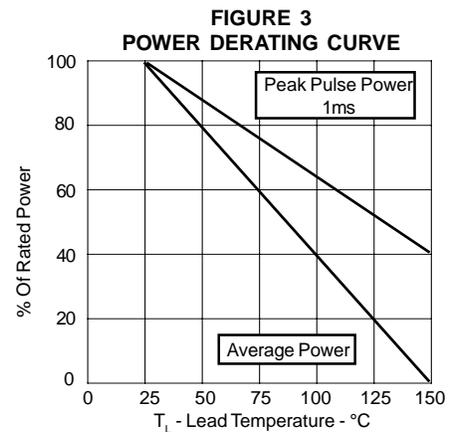
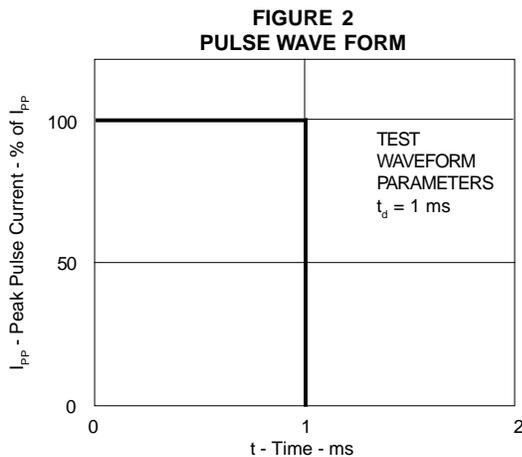
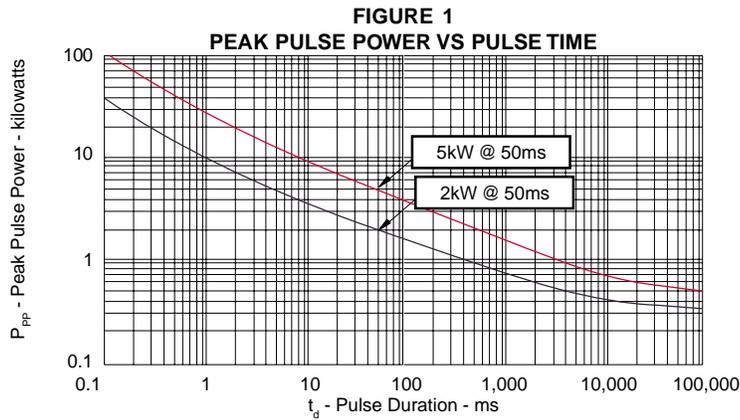


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DEVICE CHARACTERISTICS

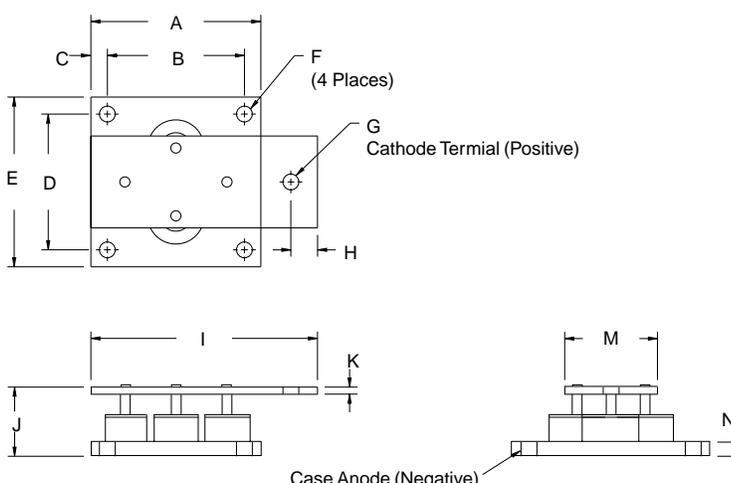
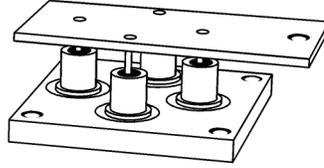
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER (See Note 1)	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE		MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM PEAK PULSE CURRENT (See Fig. 2)
		V_{WM} VOLTS	$V_{(BR)}$ VOLTS			
GPZ532	28	32	0.2	40	50	100
GPZ1275	28	32	0.03	55	60	500

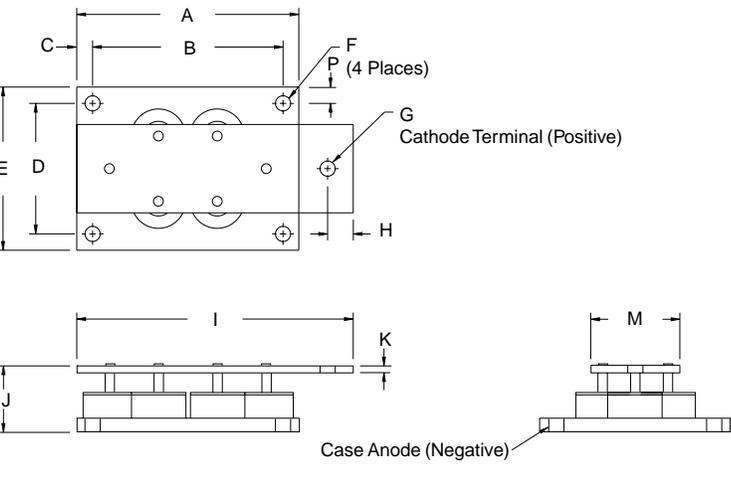
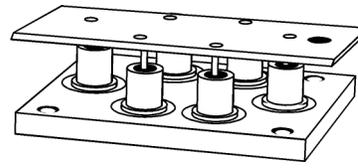
Note 1: Maximum $V_f = 3.5V$ @ 100A, 8.3ms (sine wave).



GPZ532 & GPZ1275

PACKAGE OUTLINE & DIMENSIONS

GPZ532 PACKAGE OUTLINE	GPZ532	
 <p>GPZ532 PACKAGE OUTLINE</p> <p>Diagram showing top and side views of the GPZ532 package. Dimensions A, B, C, D, E, F, G, H, I, J, K, M, and N are indicated. Labels include 'F (4 Places)', 'G Cathode Terminal (Positive)', and 'Case Anode (Negative)'.</p>	 <p>GPZ532</p> <p>Illustration of the GPZ532 package showing its physical structure with four cathode terminals and a case anode.</p>	
DIMENSIONS		
DIM	MILLIMETERS	INCHES
A	38.10 TYP	1.50 TYP
B	30.48 TYP	1.20 TYP
C	3.81 TYP	0.15 TYP
D	30.48 TYP	1.20 TYP
E	38.10 TYP	1.50 TYP
F	3.56 DIA	0.14 DIA
G	3.56 DIA	0.14 DIA
H	3.81	0.15
I	50.80	2.00
J	17.02 MAX	0.67 MAX
K	1.57	0.062
M	20.60	0.812
N	3.18	0.125

GPZ1275 PACKAGE OUTLINE	GPZ1275	
 <p>GPZ1275 PACKAGE OUTLINE</p> <p>Diagram showing top and side views of the GPZ1275 package. Dimensions A, B, C, D, E, F, G, H, I, J, K, M, and N are indicated. Labels include 'F (4 Places)', 'G Cathode Terminal (Positive)', and 'Case Anode (Negative)'.</p>	 <p>GPZ1275</p> <p>Illustration of the GPZ1275 package showing its physical structure with four cathode terminals and a case anode.</p>	
DIMENSIONS		
DIM	MILLIMETERS	INCHES
A	51.12 TYP	2.04 TYP
B	44.45 TYP	1.75 TYP
C	3.68 TYP	0.145 TYP
D	30.48 TYP	1.20 TYP
E	38.10 TYP	1.50 TYP
F	3.56 DIA	0.14 DIA
G	5.97 DIA	0.235 DIA
H	5.97	0.235
I	64.52	2.54
J	17.02 MAX	0.670 MAX
K	1.57	0.062
M	20.62	0.812
N	3.18	0.125
P	3.68	0.150

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