

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, 8/20 μ s Level 3 (Line-Ground) & Level 4 (Line-Line)

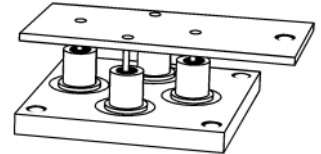
FEATURES

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

MECHANICAL CHARACTERISTICS

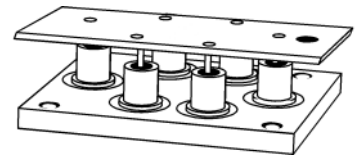
- ✓ Hermetically Sealed Sub-Assemblies
- ✓ Weight 38 grams - GPZ532 & 65 grams - GPZ1275 (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ Device Marking: Logo, Date Code & Part Number

10,000 WATTS



GPZ532

30,000 WATTS



GPZ1275

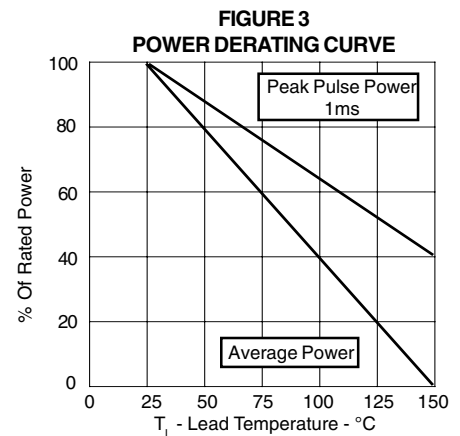
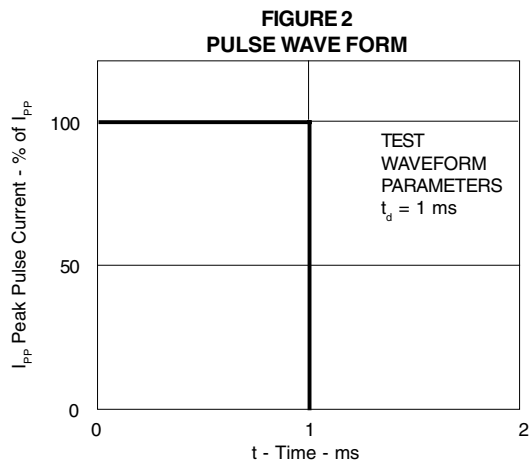
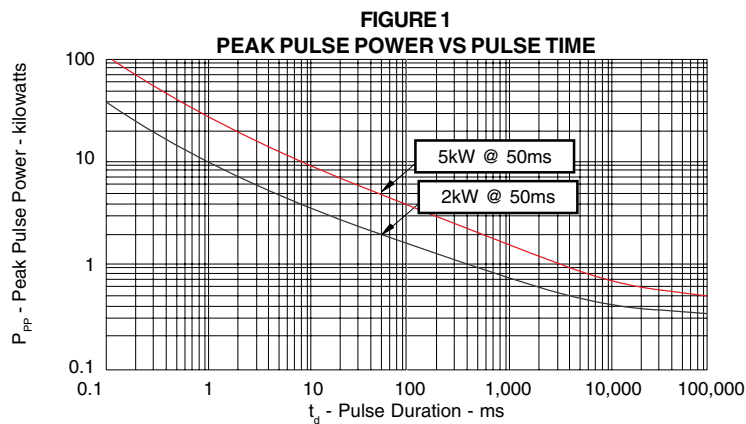
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp = 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

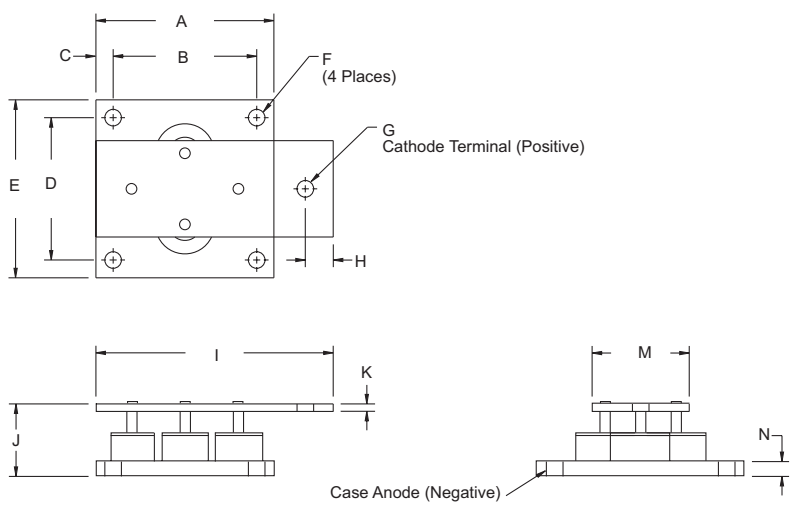
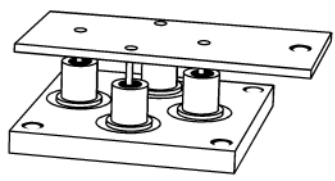
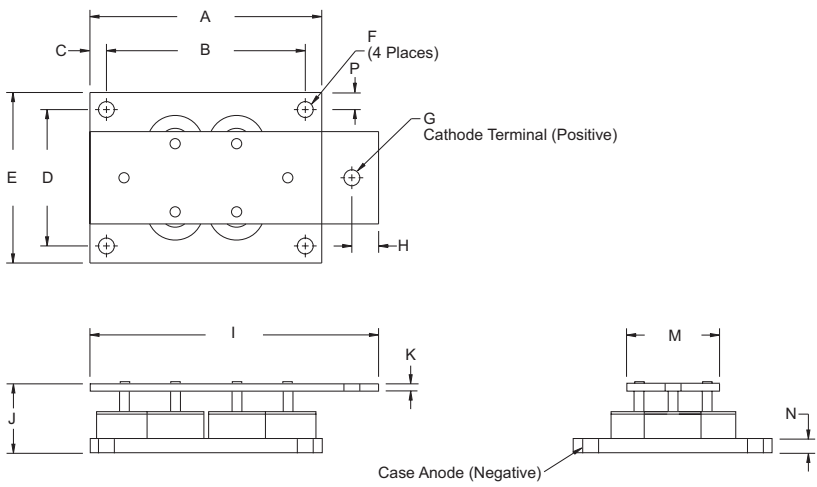
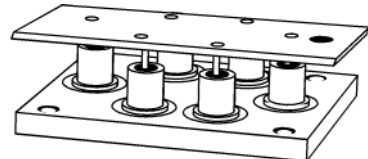
DEVICE CHARACTERISTICS

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER (See Note 1)	RATED STAND-OFF VOLTAGE V_{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE		MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ I_{PPM} V_C VOLTS	MAXIMUM LEAKAGE CURRENT @ V_{WM} I_D μA	MAXIMUM PEAK PULSE CURRENT (See Fig. 2) I_{PPM} AMPS
		$V_{(BR)}$ VOLTS	@ I_T AMPS			
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).



PACKAGE OUTLINE & DIMENSIONS

GPZ532 PACKAGE OUTLINE		GPZ532	
 <p>GPZ532 PACKAGE OUTLINE</p> <p>Dimensions: A, B, C, D, E, F (4 Places), G Cathode Terminal (Positive), H, I, J, K, M, N</p> <p>Case Anode (Negative)</p>		 <p>GPZ532</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>Dimensions: A, B, C, D, E, F (4 Places), G Cathode Terminal (Positive), H, I, J, K, M, N, P</p> <p>Case Anode (Negative)</p>		 <p>GPZ1275</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	
Outline & Dimensions: Rev 0 - 4/02, 06034			

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