

**POWER BUS VOLTAGE SUPPRESSOR****APPLICATIONS**

- Power Protection

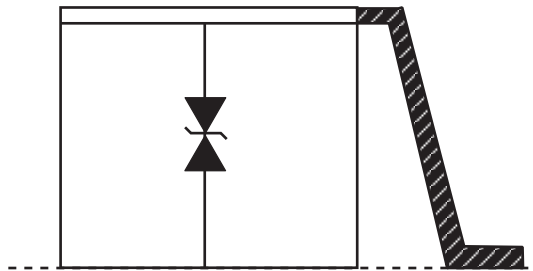
**FEATURES**

- 2250 Watts Peak Pulse Power per Line ( $t_p = 8/20\mu s$ )
- 78 Volts Bidirectional
- 15kA ( $8/20\mu s$ )
- RoHS Complaint (Exemption #7A - High Power Device)

**MECHANICAL CHARACTERISTICS**

- Lead-Free Silver Plating
- Approximate Weight: 11 grams
- Flammability Rating UL 94V-0

**PRELIMINARY**

**CIRCUIT DIAGRAM**

**TYPICAL DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS @ 25°C Unless Otherwise Specified**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp = 8/20μs)	$P_{PP}$	2250	Watts
Storage Temperature	$T_{STG}$	TBD	°C
Operating Temperature	$T_L$	TBD	°C
Peak Pulse Current (tp=8/20μs)	$I_{PP\ MAX}$	15	kA

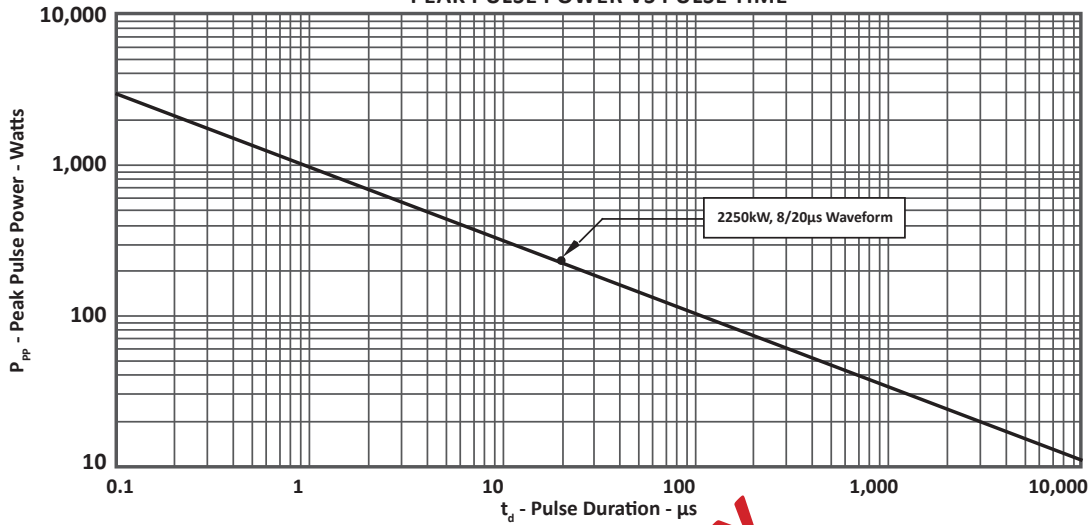
**ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified**

PART NUMBER	RATED STAND-OFF VOLTAGE  $V_{WM}$ VOLTS	MINIMUM BREAKDOWN VOLTAGE  @5mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE (Fig. 2)  @ $I_{PP}$ $V_C$ VOLTS	MAXIMUM LEAKAGE CURRENT  @ $V_{WM}$ $I_D$ μA	PEAK PULSE CURRENT (Fig. 2)  $I_{PPM}$ kAMPS
2700SM78CA	78	86	150	10	15

PRELIMINARY

TYPICAL DEVICE CHARACTERISTICS

FIGURE 1  
PEAK PULSE POWER VS PULSE TIME



**PRELIMINARY**

FIGURE 2  
PULSE WAVE FORM

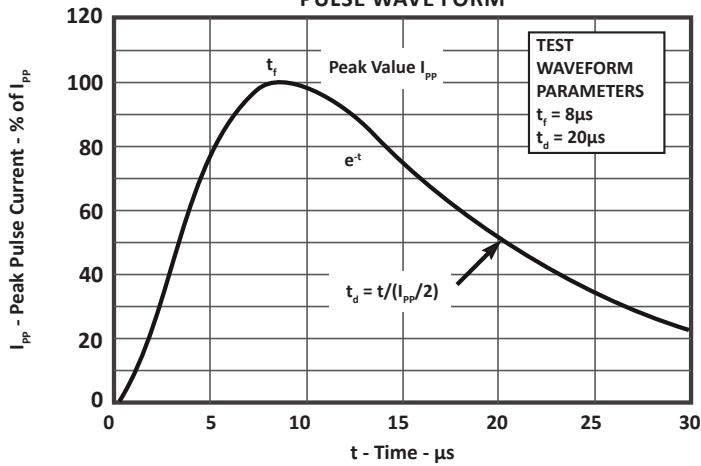
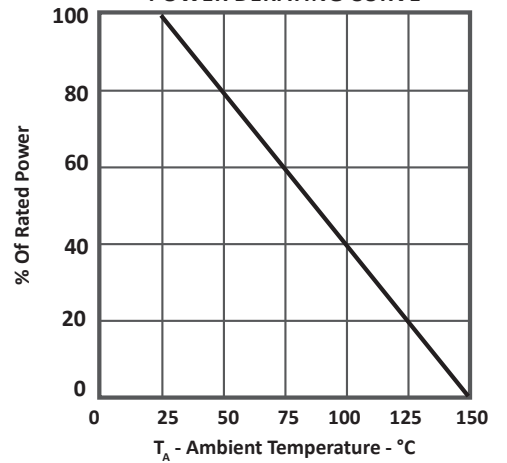


FIGURE 3  
POWER DERATING CURVE

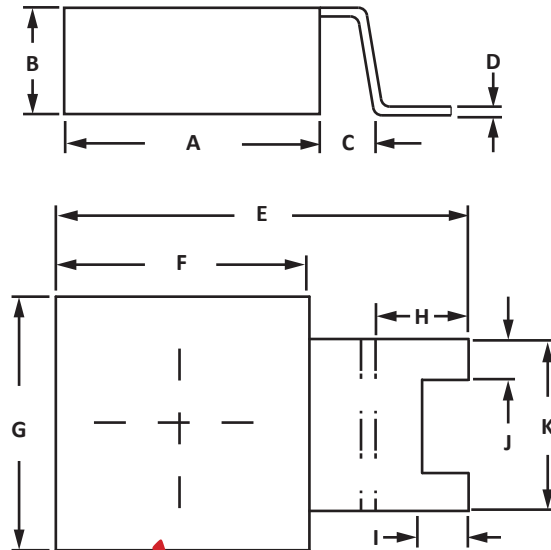


**PACKAGE INFORMATION**

OUTLINE DIMENSIONS				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	13.08	13.59	0.515	0.535
B	7.75	8.26	0.305	0.325
C	3.05	3.56	0.120	0.140
D	0.46	0.56	0.018	0.022
E	18.92	19.43	0.745	0.765
F	13.08	13.59	0.515	0.535
G	13.08	13.59	0.515	0.535
H	3.05	3.56	0.120	0.140
I	1.17	1.42	0.046	0.056
J	3.81	4.06	0.150	0.160
K	10.62	10.92	0.418	0.430

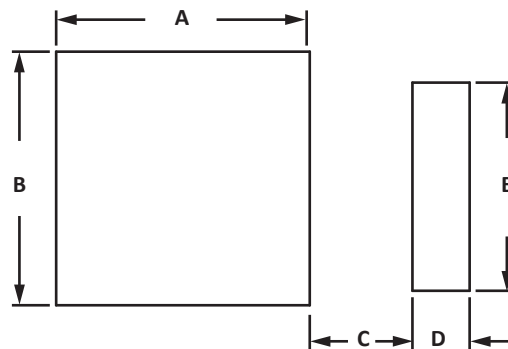
**NOTES**

1. Controlling dimensions in millimeters.
2. Recommended that customer applies maximum 80% coverage of solder between disc and solder pad.
3. Dimension "C" is reference.



PRELIMINARY

PAD LAYOUT		
DIM	MILLIMETERS	INCHES
	NOM	NOM
A	13.84	0.545
B	13.84	0.545
C	2.79	0.110
D	3.56	0.140
E	11.18	0.440



## COMPANY INFORMATION

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### 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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