POWER BUS VOLTAGE SUPPRESSOR



APPLICATIONS

• Power Protection

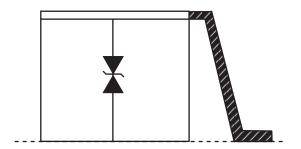
FEATURES

- 2250 kilowatts Peak Pulse Power per Line (tp = 8/20µs)
- 78 Volts Bidirectional
- 15kA (8/20µs)
- RoHS Complaint (Exemption #7A High Power Device)

MECHANICAL CHARACTERISTICS

- Lead-Free Silver Plating
- 32mm Tape and Reel Per EIA Standard 481
- Approximate Weight: 9.8 grams
- Flammability Rating UL 94V-0
- Co-planarity < 0.10mm

CIRCUIT DIAGRAM

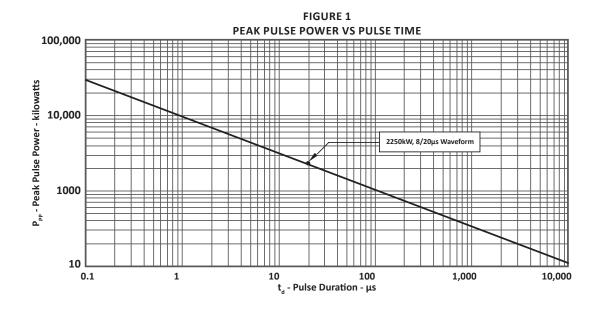


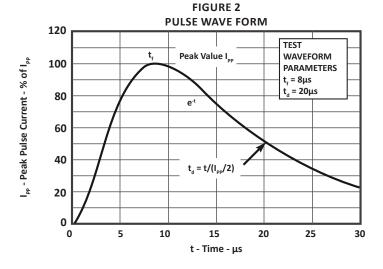
TYPICAL DEVICE CHARACTERISTICS

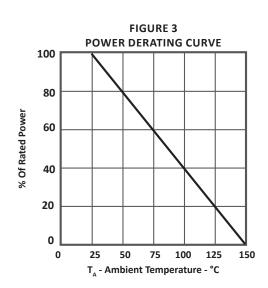
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER SYMBOL VALUE							
Peak Pulse Power (tp = 8/20μs)	P _{pp}	2250	kilowatts				
Storage Temperature	T _{stg}	-55 to +150	°C				
Operating Temperature	T _L	-40 to +125	°C				
Peak Pulse Current (tp=8/20µs)	I _{PP MAX}	15	kA				

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	MARKING CODE	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE @5mA	MAXIMUM CLAMPING VOLTAGE (Fig. 2) @ I _{pp}	MAXIMUM LEAKAGE CURRENT @V _{wm}	PEAK PULSE CURRENT (Fig. 2)		
		V _{wM} VOLTS	V _(BR) VOLTS	V _c VOLTS	Ι _D μΑ	I _{PPM} kAMPS		
2700SM78CAN	78CA	78	86	150	10	15		

TYPICAL DEVICE CHARACTERISTICS



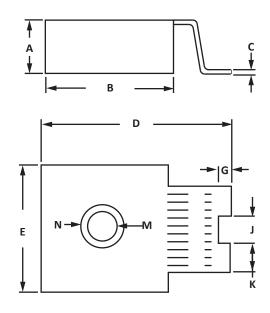




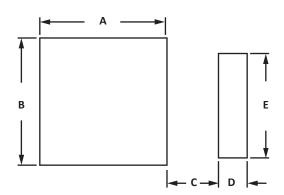
PACKAGE INFORMATION

1. Controlling dimensions in millimeters.

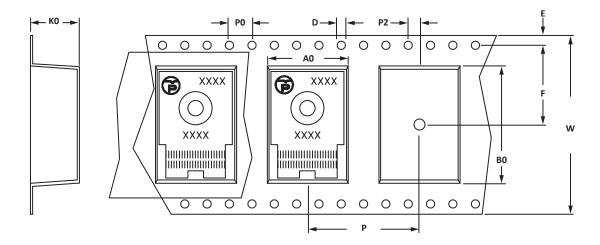
OUTLINE DIMENSIONS							
DIM	MILLIN	METERS	INCHES				
	MIN	MAX	MIN	MAX			
А	7.80	8.20	0.307	0.323			
В	12.75	13.25	0.502	0.522			
С	0.48	0.52	0.019	0.021			
D	18.75	19.50	0.738	0.768			
E	12.75	13.25	0.502	0.522			
G	1.23	1.31	0.048	0.052			
J	2.75	2.85	0.108	0.112			
К	3.90	3.98	0.154	0.156			
М	1.48	1.56	0.058	0.062			
N	2.49	2.59	0.098	0.102			
NOTES							



PAD LAYOUT							
DIM	MILLIN	IETERS	INCHES				
DIM	MIN	MAX	MIN	MAX			
А	13.45	13.72	0.530	0.540			
В	13.45	13.72	0.530	0.540			
С	2.44	2.59	0.096	0.102			
D	3.50	3.62	0.138	0.142			
Е	11.16	11.43	0.440	0.450			



TAPE AND REEL



SPECIFICATIONS											
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	P2	Р
330mm (13")	32mm	13.89± 0.01	19.81 ± 0.01	8.38 ± 0.01	1.50 ± 0.01	1.75 ± 0.01	14.20 ± 0.01	32.00 ± 0.01	4.00 ± 0.01	2.00 ± 0.01	20.00 ± 0.01

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T13 = 13" Reel 250 pieces per 32mm tape.
- 4. Marking on Part marking code, logo and date code.

ORDERING INFORMATION							
BASE PART NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE T					TUBE QTY		
2700SM78CAN	N/A	-T13	250	13"	N/A		
This device is only available in a Lead-Free configuration.							

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 high performance interface and linear products. They include analog switches; multiplexers; LED drivers; LED wafer die for ESD protection; audio control ICs; RF and related high frequency products.

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