

# TYPICAL DEVICE CHARACTERISTICS

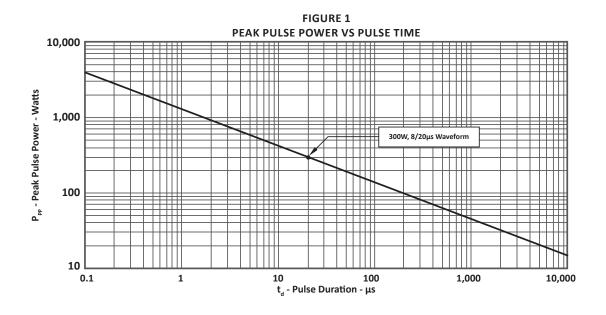
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified									
PARAMETER SYMBOL VALUE U									
Operating Temperature	T <sub>L</sub>	-55 to 150	°C						
Storage Temperature	T <sub>stg</sub>	-55 to 150	°C						
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P <sub>pp</sub>	300	Watts						
Forward Surge Rating (1/20s @ 25°C, I <sub>F</sub> = 10mA)	V <sub>F</sub>	1	Volts						
Peak Pulse Current (tp = 8/20μs)	I <sub>pp</sub>	30	Amps						

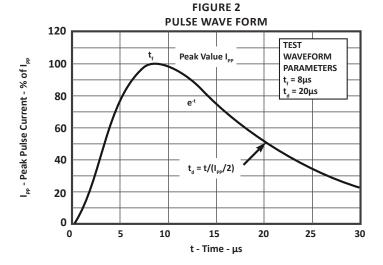
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified										
PART NUMBER	DEVICE MARKING	RATED STAND-OFF VOLTAGE (Note 1) V <sub>WM</sub>	MINIMUM SNAP-BACK VOLTAGE @ 50mA V <sub>(SB)</sub>	MINIMUM BREAKDOWN VOLTAGE (Note 1) @ 2μA V <sub>(BR)</sub>	MAXIMUM CLAMPING VOLTAGE (Fig. 2) (Note 1) @ I <sub>p</sub> = 1A V	MAXIMUM CLAMPING VOLTAGE (Fig. 2) (Note 1) @ 8/20μs V	MAXIMUM LEAKAGE CURRENT (Note 1)	TYPICAL CAPACITANCE (Note 2)  OV, 1MHz C <sub>J(SD)</sub>		
		VOLTS	VOLTS	VOLTS	VOLTS	VOLTS	' <sub>□</sub> μ <b>A</b>	pF		
SR2.8	2A	2.8	2.8	3.0	5.0	8.5V @ 5A	1	4.5		
SR3.3	3A	3.3	3.3	3.5	7.0	15V @ 10A	1	4.5		

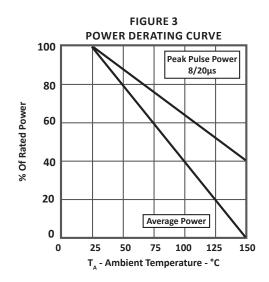
### NOTES

- 1. From pin 4 to 1. 2. From pin 1 to 3, 1 to 2, 3 to 4, 2 to 4.

# **TYPICAL DEVICE CHARACTERISTICS**







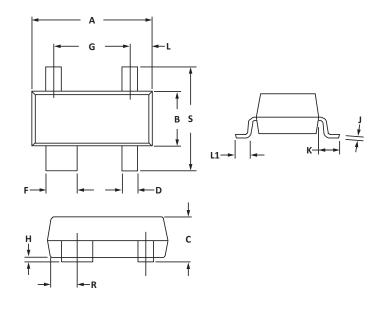


# **SOT-143 PACKAGE INFORMATION**

OUTLINE DIMENSIONS								
MILLIN	IETERS	INCHES						
MIN	MAX	MIN	MAX					
2.80	3.04	0.110	0.120					
1.20	1.39	0.047	0.055					
0.84	1.14	0.033	0.045					
0.39	0.50	0.015	0.020					
0.79	0.93	0.031	0.037					
1.78	2.03	0.070	0.080					
0.08	0.15	0.003	0.006					
0.46	0.60	0.018	0.024					
0.445	0.60	0.0175	0.024					
0.40	0.60	0.016	0.024					
0.72	0.83	0.028	0.033					
2.11	2.48	0.083 0.09						
	MILLIN MIN  2.80  1.20  0.84  0.39  0.79  1.78  0.08  0.46  0.445  0.40  0.72	MILLIMETERS           MIN         MAX           2.80         3.04           1.20         1.39           0.84         1.14           0.39         0.50           0.79         0.93           1.78         2.03           0.08         0.15           0.46         0.60           0.445         0.60           0.40         0.60           0.72         0.83	MILLIMETERS         INC           MIN         MAX         MIN           2.80         3.04         0.110           1.20         1.39         0.047           0.84         1.14         0.033           0.39         0.50         0.015           0.79         0.93         0.031           1.78         2.03         0.070           0.08         0.15         0.003           0.46         0.60         0.018           0.445         0.60         0.0175           0.40         0.60         0.016           0.72         0.83         0.028					



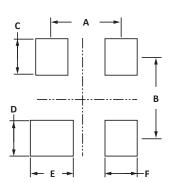
- 1. Dimensioning and tolerances per ANSI Y14.M, 1985.
- ${\bf 2.} \ \ {\bf Controlling\ dimension: in ches.}$
- 3. Dimensions are exclusive of mold flash and metal burrs.



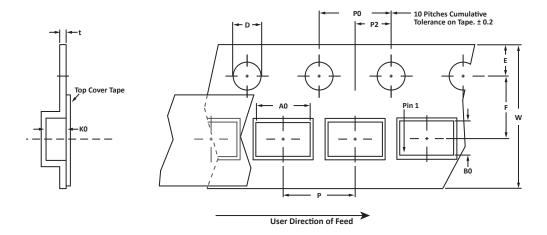
PAD LAYOUT DIMENSIONS								
MILLIN	IETERS	INCHES						
MIN	MAX	MIN	MAX					
1.88	2.13	0.074	0.084					
1.80	2.06	0.071	0.081					
0.71	0.97	0.028	0.038					
0.76	1.02	0.030	0.040					
1.07	1.32	0.042	0.052					
0.71	0.97	0.028	0.038					
	MILLIM MIN  1.88  1.80  0.71  0.76  1.07	MILLIMETERS           MIN         MAX           1.88         2.13           1.80         2.06           0.71         0.97           0.76         1.02           1.07         1.32	MILLIMETERS         INC           MIN         MAX         MIN           1.88         2.13         0.074           1.80         2.06         0.071           0.71         0.97         0.028           0.76         1.02         0.030           1.07         1.32         0.042					

#### NOTES

1. Controlling dimension: inches.



# **TAPE AND REEL**



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	КО	D	E	F	W	P0	P2	Р	tmax
178mm (7")	8mm	3.10 ± 0.10	2.70 ± 0.10	1.35 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

#### **NOTES**

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T7 = 7" Reel 3,000 pieces per 8mm tape.
- 4. Suffix T13 = 13" Reel 10,000 pieces per 8mm tape.
- 5. Marking on Part marking code (see page 2) and date code.

Package outline, pad layout and tape specifications per document number 06011.R4 8/10.

ORDERING INFORMATION								
BASE PART NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE QTY								
SR2.8/SR3.3	-LF	-T7	3000	7"	n/a			
SR2.8/SR3.3 -LF -T13 10,000 13" n/a								
This device is only available in a Lead-Free configuration.								



## COMPANY INFORMATION

#### **COMPANY PROFILE**

In business more than 25 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 LED wafer die for ESD protection and related high frequency products. ProTek Devices is ISO 9001:2015 certified.

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