

TYPICAL DEVICE CHARACTERISTICS

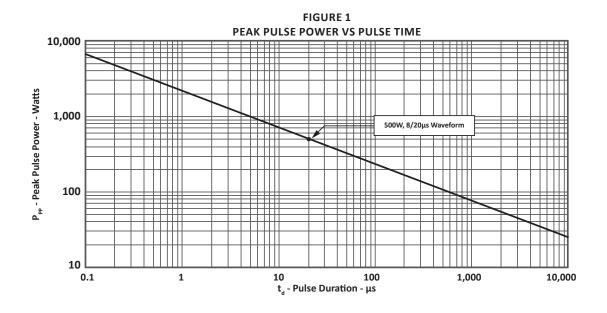
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER	SYMBOL	VALUE	UNITS				
Operating Temperature	T _L	-55 to 150	°C				
Storage Temperature	T _{stg}	-55 to 150	°C				
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P _{PP}	500	Watts				

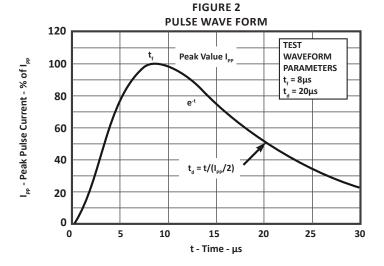
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified									
PART NUMBER (Note 1)	DEVICE MARKING	RATED STAND-OFF VOLTAGE	MINIMUM MAXIMUM BREAKDOWN CLAMPING VOLTAGE VOLTAGE (Fig. 2)	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM CAPACITANCE			
		V _{wM} VOLTS	@1mA V _(BR) VOLTS	@I _p = 1A V _c VOLTS	@ 8/20μs V _c @ Ι _{թթ}	@V _{wм} Ι _D μΑ	@0V, 1MHz C _{J(SD)} pF		
PUSB6B	PRR	5.25	6.0	7.0	13.2V @ 35.0A	10	15		

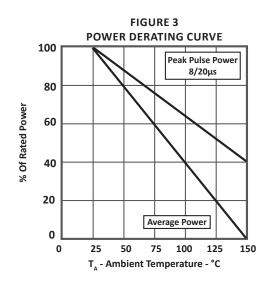
NOTES

^{1.} Electrical specifications (peak pulse power) refer to pins 1 to pin 4 or pin 5 to pin 8.

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SO-8 PACKAGE INFORMATION

OUTLINE DIMENSIONS									
DIM	MILLIN	IETERS	INCHES						
DIIVI	MIN	MAX	MIN	MAX					
Α	4.80	5.00	0.189	0.196					
В	3.80	4.00	0.150	0.157					
С	C 1.35 1.75	0.054	0.068						
D	0.35	0.49	0.014	0.019					
F	0.40	1.25	0.016	0.049					
G	1.27	BSC	0.05	BSC					
J	0.18 0.25	0.007	0.009						
K 0.10 P 5.80 R 0.25		0.25	0.004	0.008					
		6.20	0.229	0.244					
		0.50	0.010	0.019					

NOTES

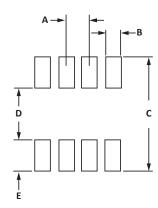
- 1. -T- = Seating plane and datum surface.
- 2. Dimensions "A" and "B" are datum.
- 3. Dimensions "A" and "B" do not include mold protrusion.
- 4. Maximum mold protrusion is 0.015" (0.380mm) per side.
- 5. Dimensioning and tolerances per ANSI Y14.5M, 1982.
- 6. Dimensions are exclusive of mold flash and metal burrs.

-A-
8 5 A (+) 0.010" (0.25mm) (M) B (M)
1 -B- P (+) 0.010* (0.25mm) (w) B (w) 4 PL
G → C R x 45°
-T- K 0.010" (0.25mm) (M) B (S) A(S)
8 PL

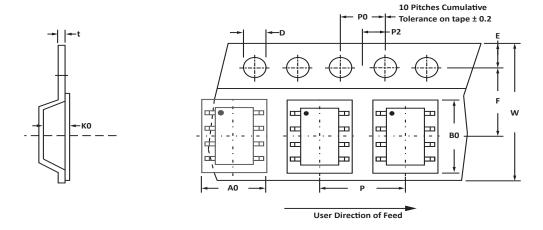
PAD LAYOUT DIMENSIONS									
DIM	MILLIN	IETERS	INCHES						
	MIN	MAX	MIN	MAX					
Α	1.14	1.40	0.045	0.055					
В	0.64	0.89	0.025	0.035					
С	6.22	-	0.245	-					
D	3.94	4.17	0.155	0.165					
Е	1.02	1.27	0.040	0.050					

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")	12mm	6.50 ± 0.10	5.40 ± 0.10	2.00 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30	4.00 ± 0.12	2.00 ± 0.10	8.00 ± 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 1,000 pieces per 12mm tape.
- 4. Suffix T13 = 13" Reel 2,500 pieces per 12mm tape.
- 5. Bulk product shipped in tubes of 98 pieces per tube.
- 6. Marking on Part marking code (see page 2), date code, logo and pin one defined by dot on top of package.

ORDERING INFORMATION									
BASE PART NUMBER	LEADFREE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY					
PUSB6B	-LF	-T7	1,000	7"	98				
PUSB6B	-LF	-T13	2,500	13"	98				
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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