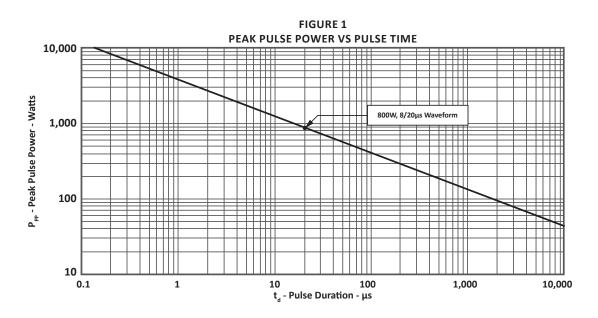
TYPICAL DEVICE CHARACTERISTICS

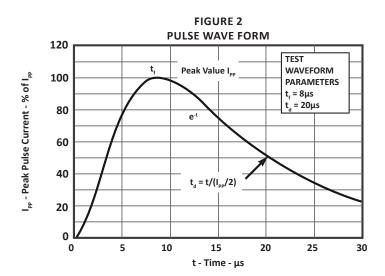
05166

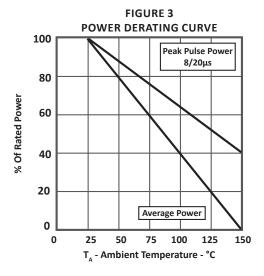
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified									
PARAMETER SYMBOL VALUE UNITS									
Operating Temperature	TL	-55 to 150	°C						
Storage Temperature	T _{stg}	-55 to 150	°C						
Peak Pulse Power (tp = 8/20µs) - See Figure 1	P _{pp}	800	Watts						
Forward Voltage @ 100mA, 300μs - Square Wave (See Note 1)	V _F	1.5	Volts						
NOTE 1. Only applies to unidirectional devices.									

PART DEVICE NUMBER MARKING (Note 1)		RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING 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 _{wM} Ι _D μΑ	@0V, 1MHz C pF	
SMDB05	PDA	5.0	6.0	9.8	24.6V @ 45.0A	25	880	
SMDB05C	PDB	5.0	6.0	9.8	24.6V @ 45.0A	25	493	
SMDB08	PDJ	8.0	8.5	13.4	25.5V @ 40.0A	10	800	
SMDB08C	PDK	8.0	8.5	13.4	25.5V @ 40.0A	10	450	
SMDB12	PDC	12.0	13.3	19.0	32.9V @ 34.0A	2	440	
SMDB12C	PDD	12.0	13.3	19.0	32.9V @ 34.0A	2	248	
SMDB15	PDE	15.0	16.7	24.0	38.5V @ 27.0A	2	400	
SMDB15C	PDF	15.0	16.7	24.0	38.5V @ 27.0A	2	225	
SMDB24	PDG	24.0	26.7	43.0	48.5V @ 20.0A	2	275	
SMDB24C	PDH	24.0	26.7	43.0	48.5V @ 20.0A	2	155	

TYPICAL DEVICE CHARACTERISTICS







SO-8 PACKAGE INFORMATION

OUTLINE DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
А	4.80	5.00	0.189	0.196				
В	3.80	4.00	0.150	0.157				
С	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				
К	0.10	0.25	0.004	0.008				
Р	5.80	6.20	0.229	0.244				
R	0.25	0.50	0.010	0.019				



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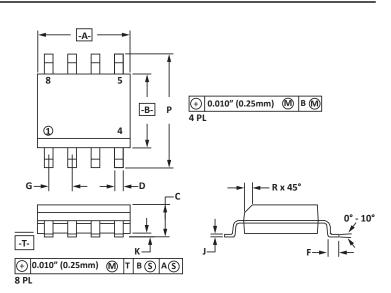
1. -T- = Seating plane and datum surface.

2. Dimensions "A" and "B" are datum.

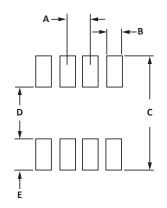
3. Dimensions "A" and "B" do not include mold protrusion.

Maximum mold protrusion is 0.015" (0.380mm) per side.
 Dimensioning and tolerances per ANSI Y14.5M, 1982.

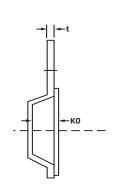
Dimensioning and colerances per ANSI 114.500, 1562.
 Dimensions are exclusive of mold flash and metal burrs.

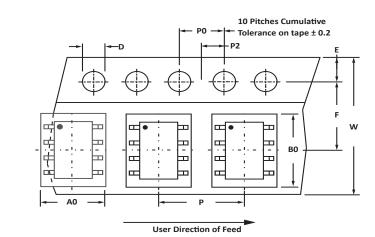


PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
А	1.14	1.40	0.045	0.055				
В	0.64 0.89		0.025	0.035				
С	6.22 -		0.245	-				
D	D 3.94 4.17		0.155	0.165				
E	1.02 1.27 0.040 0.050							
NOTES 1. Controlling dimension: inches.								



TAPE AND REEL





SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	PO	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.

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 (xx = Voltage)	R LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE QTY								
SMDBxx/SMDBxxC	-LF	-T7	1,000	7″	98				
SMDBxx/SMDBxxC	-LF	-T13	2,500	13"	98				
This device is only available in a Lead-Free configuration.									

^{2.} Surface mount product is taped and reeled in accordance with EIA-481.

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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