

LOW CAPACITANCE TVS ARRAY**APPLICATIONS**

- ✓ Noise Suppression for Data Lines
- ✓ Cellular Phones
- ✓ Personal Digital Assistant (PDA)
- ✓ Digital Cameras
- ✓ Laptop Computers

IEC COMPATIBILITY (EN61000-4)

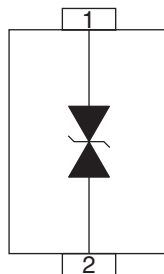
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

- ✓ ESD Protection > 40 kilovolts
- ✓ 10 Watts Peak Pulse Power per Line ($t_p=10/1000\mu s$)
- ✓ Bidirectional Configuration
- ✓ Replacement for MLV (0603)
- ✓ Small Surface Mount Package
- ✓ Protects One Data Line
- ✓ Low Clamping Voltage
- ✓ Low Capacitance
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ Molded EIAJ SOD-723 Package
- ✓ Weight 2 milligrams (Approximate)
- ✓ Available in Lead-Free Pure-Tin Plating
- ✓ Solder Reflow Temperature:
Pure-Tin - Sn, 100: 260-270°C
- ✓ Consult Factory for Leaded Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Device Marking: Marking Code

**PIN CONFIGURATION**

RSB6.8G

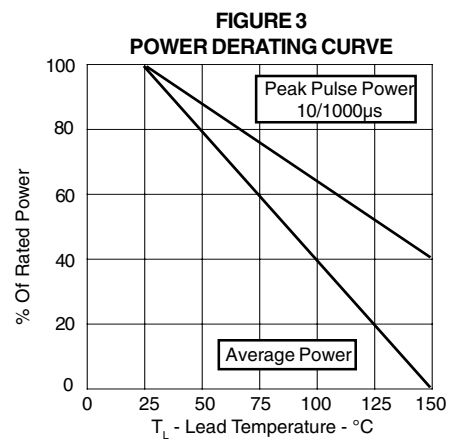
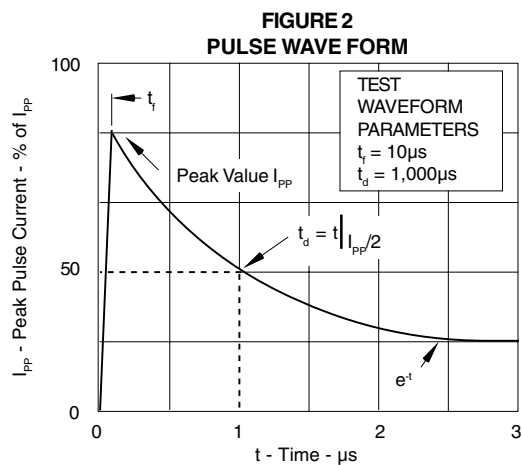
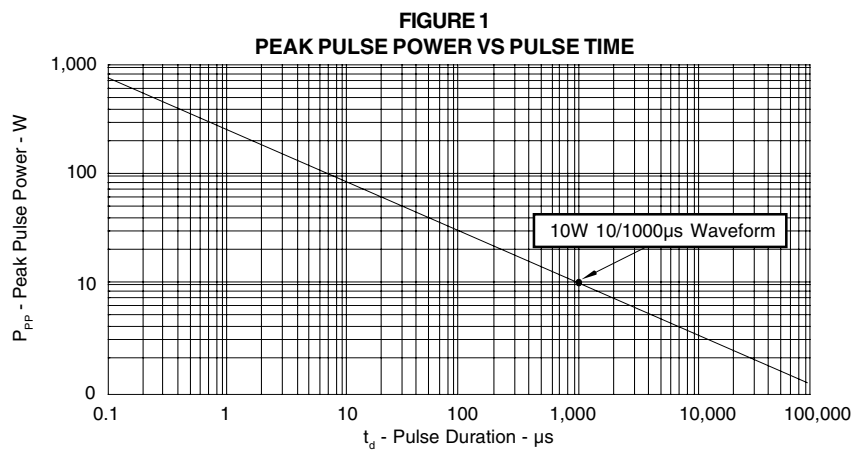
DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp = 10/1000µs) - See Figure 1	P _{PK}	10	Watts
Power Dissipation	P	150	mW
Junction Temperature	T _L	150	°C
Storage Temperature	T _{STG}	-55 to 150	°C
Operating Temperature	T _{OPR}	-55 to 150	°C

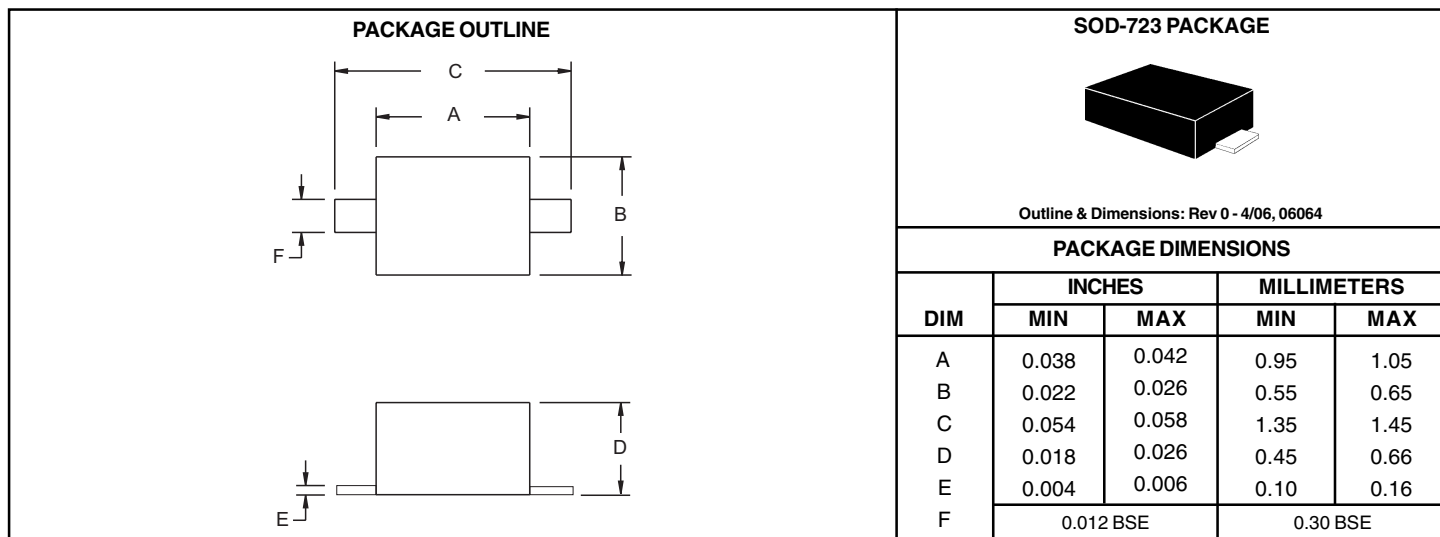
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER (See Note 1)	DEVICE MARKING	RATED STAND-OFF VOLTAGE V _{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA V _(BR) VOLTS	MAXIMUM LEAKAGE CURRENT @ 3.5V I _b µA	MAXIMUM CAPACITANCE 0V @ 1 MHz C pF
RSB6.8G	A	4.7	5.7	0.5	15

Note 1: Bidirectional device. Test both polarities.

GRAPHS



SOD-723 PACKAGE OUTLINE & DIMENSIONS



TAPE & REEL ORDERING NOMENCLATURE

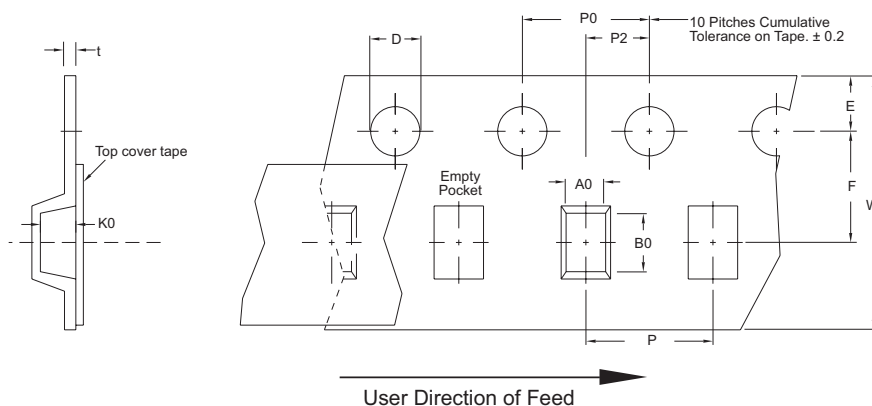
1. Surface mount product is taped and reeled in accordance with EIA-481.
2. Suffix - T7 = 7 Inch Reel - 3,000 pieces per 8mm tape, i.e., *RSB6.8G-T7*.
3. Suffix - T13 = 13 Inch Reel - 10,000 pieces per 8mm tape, i.e., *RSB6.8G-T13*.
4. Suffix - LF = Lead-Free, Pure-Tin Plating, i.e., *RSB6.8G-LF-T7*.

NOTES

1. Controlling Dimensions in Millimeters.
2. Dimensions are exclusive of mold flash and metal burrs.

Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	1.00 ± 0.10	1.95 ± 0.05	0.75 ± 0.05	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



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DESIGN CHANGES: ProTek reserves the right to discontinue product lines without notice, and that the final judgement concerning selection and specifications is the buyer's and that in furnishing engineering and technical assistance, ProTek assumes no responsibility with respect to the selection or specifications of such products.

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