

**LOW CAPACITANCE TVS ARRAY****APPLICATIONS**

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

**IEC COMPATIBILITY (EN61000-4)**

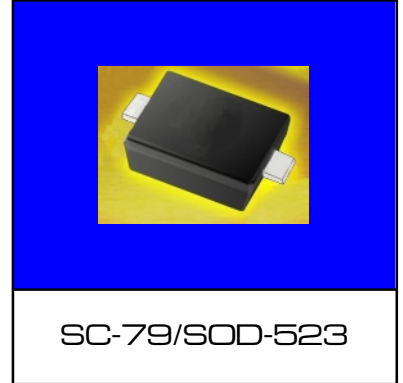
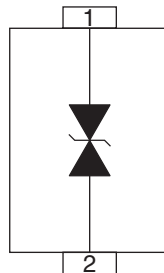
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

**FEATURES**

- ✓ ESD Protection > 40 kilovolts
- ✓ 10 Watts Peak Pulse Power per Line (tp = 10/1000µs)
- ✓ Bidirectional Configuration
- ✓ Replacement for MLV (0805)
- ✓ Small Surface Mount Package
- ✓ Protects One Data Line
- ✓ Low Clamping Voltage
- ✓ **LOW CAPACITANCE**

**MECHANICAL CHARACTERISTICS**

- ✓ Molded EIAJ SC-79 & JEDEC SOD-523
- ✓ Weight 10 milligrams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Device Marking: Marking Code

**PIN CONFIGURATION**

**DEVICE CHARACTERISTICS**

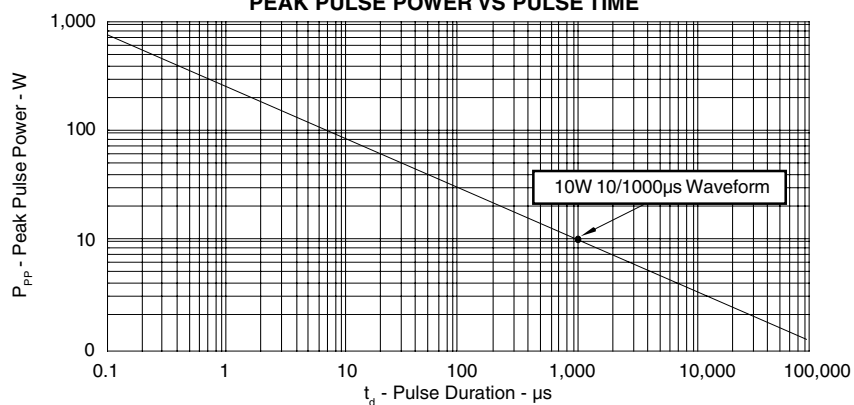
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p = 10/1000\mu s$ ) - See Figure 1	$P_{Pk}$	10	W
Power Dissipation	P	150	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature	Tstg	-55 to 150	°C
Operation Temperature	Topr	-50 to 150	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER (See Note 1)	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE  $V_{WM}$ VOLTS	MINIMUM BREAKDOWN VOLTAGE  @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM BREAKDOWN VOLTAGE  @1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE  @10/1000 $\mu s$ $V_C @ I_{PP}$	MAXIMUM LEAKAGE CURRENT  @3.5V $I_D$ $\mu A$	TYPICAL CAPACITANCE  @0V, 1 MHz C pF
RSB6.8S	C5	4.7	5.7	7.82	10V @ 1A	0.5	30

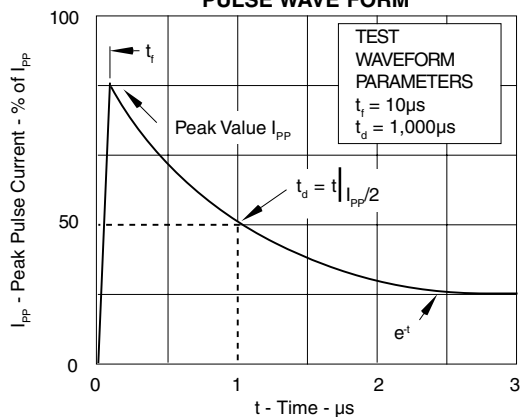
**Note 1:** Bidirectional device. Test both polarities.

GRAPHS

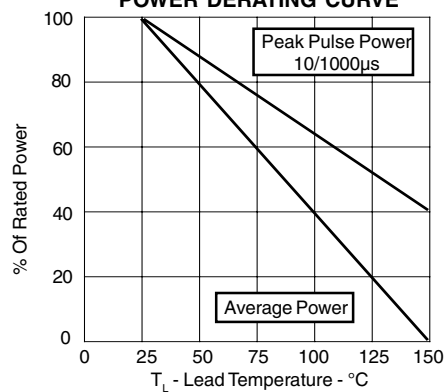
**FIGURE 1  
PEAK PULSE POWER VS PULSE TIME**



**FIGURE 2  
PULSE WAVE FORM**



**FIGURE 3  
POWER DERATING CURVE**



## PACKAGE OUTLINE & DIMENSIONS

PACKAGE OUTLINE		SC79/SOD523 PACKAGE			
DIM	INCHES		MILLIMETERS		
	MIN	MAX	MIN	MAX	
A	0.043	0.049	1.10	1.30	
B	0.028	0.035	0.70	0.90	
C	0.059	0.066	1.50	1.70	
D	0.020	0.028	0.50	0.70	
E	0.003	0.008	0.08	0.20	
F	0.30 BSE		0.012 BSE		
MOUNTING PAD		NOTES			
		<b>1.</b> Controlling Dimensions in Millimeters. <b>2.</b> Dimensions are exclusive of mold flash and metal burrs.			
		<b>TAPE &amp; REEL ORDERING NOMENCLATURE</b>  <b>1.</b> Surface mount product is taped and reeled in accordance with EIA-481.			
		<b>Outline &amp; Dimensions: Rev 0 - 8/02, 06037</b>			

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