

LOW CAPACITANCE TVS COMPONENT**APPLICATIONS**

- ✓ Ethernet - 10/100/1000 Base T
- ✓ Cellular Phones
- ✓ Personal Digital Assistant (PDA)
- ✓ USB Interfaces

IEC COMPATIBILITY (EN61000-4)

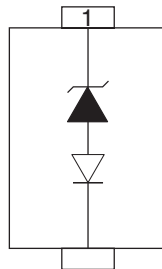
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

- ✓ ESD Protection > 25 kilovolts
- ✓ Unidirectional Configuration
- ✓ Protects One Unidirectional Line
- ✓ Low Leakage Current < 1.0 μ A
- ✓ **LOW CAPACITANCE: 6pF TYPICAL**

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 & Polarity Band (*Unidirectional Only*)

**PIN CONFIGURATION**

DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p = 8/20\mu s$) - See Figure 1	P_{PP}	50	Watts
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	5	A
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MINIMUM SNAP BACK VOLTAGE	MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM LEAKAGE CURRENT	TYPICAL CAPACITANCE
		V_{WM} VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ $I_{SB} = 10mA$ V_{SB} VOLTS	@ $I_p = 1A$ V_C VOLTS	@ V_{WM} I_d μA	@ 0V, 1MHz C pF
PLW2.8	P	2.8	3.0	2.8	5.0	1	6

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

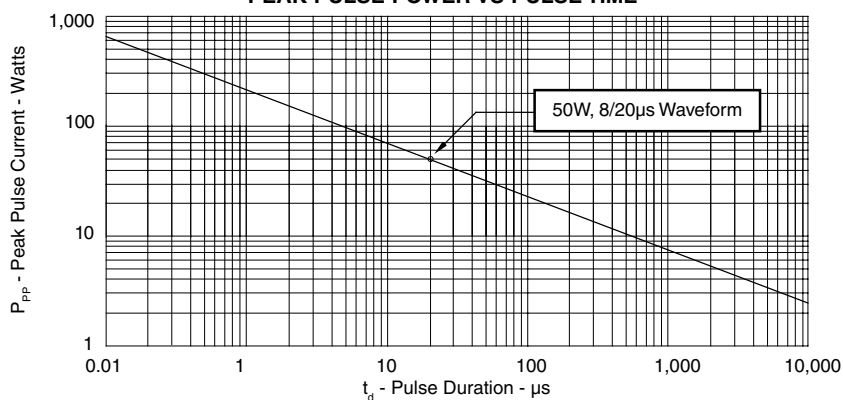
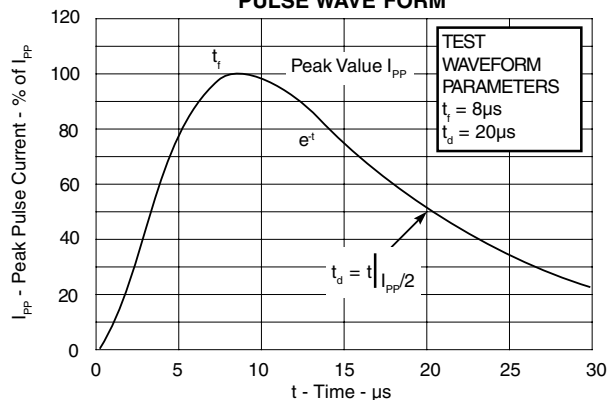
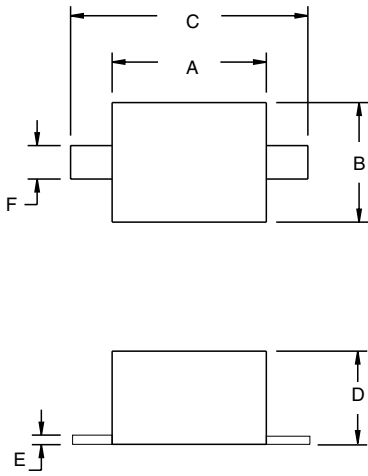

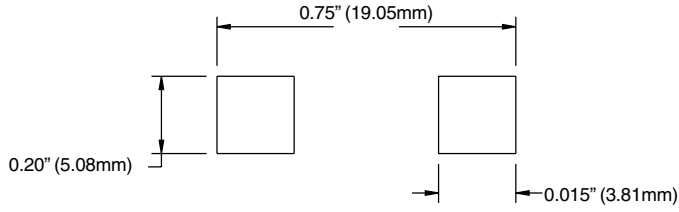


FIGURE 2
PULSE WAVE FORM



PACKAGE OUTLINE & DIMENSIONS

<p style="text-align: center;">PACKAGE OUTLINE</p> 	<p style="text-align: center;">SC79/SOD523 PACKAGE</p> 			
PACKAGE DIMENSIONS				
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	

<p style="text-align: center;">MOUNTING PAD</p> 	<p>NOTES</p> <ol style="list-style-type: none"> Controlling Dimensions in Millimeters. Dimensions are exclusive of mold flash and metal burrs. <p>TAPE & REEL ORDERING NOMENCLATURE</p> <ol style="list-style-type: none"> Surface mount product is taped and reeled in accordance with EIA-481. Suffix-T7 = 7 Inch Reel - 3,000 pieces per 8mm tape, i.e., <i>PLW2.8-T7</i>. <p style="text-align: right;">Outline & Dimensions: Rev 0 - 8/02, 06037</p>
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