



PRSB6.8CF

STANDARD TVS COMPONENTS

APPLICATIONS

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

IEC COMPATIBILITY (EN61000-4)

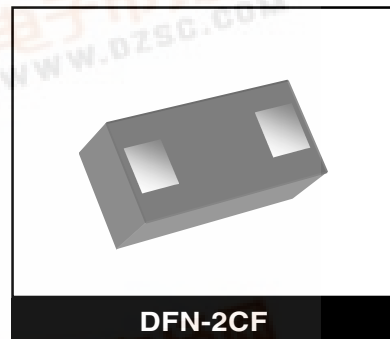
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

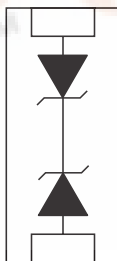
- ✓ ESD Protection > 40 kilovolts
- ✓ 10 Watts Peak Pulse Power per Line ($t_p=10/1000\mu s$)
- ✓ Bidirectional Configuration
- ✓ Protects One Data Line
- ✓ Low Clamping Voltage
- ✓ Low Capacitance
- ✓ Easy Placement for Manufacturing
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ DFN-2CF Package
- ✓ Weight 0.8 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



PRSB6.8CF

DEVICE CHARACTERISTICS

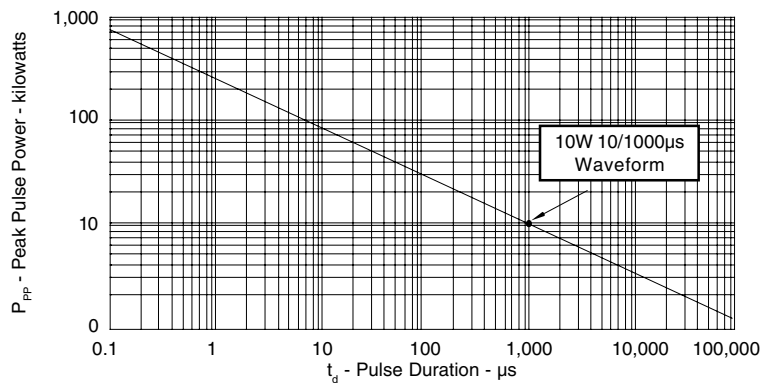
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_A	-50 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C
Junction Temperature	T_J	150	°C
Peak Pulse Power (tp = 10/1000µs) - See Figure 1	P_{PP}	10	Watts
Power Dissipation	P	150	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM BREAKDOWN VOLTAGE	MAXIMUM LEAKAGE CURRENT	TYPICAL CAPACITANCE
		V_{WM} VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ 3.5V I_b µA	@ 0V, 1 MHz C pF
PRSB6.8CF	A	4.7	5.7	7.82	0.5	15

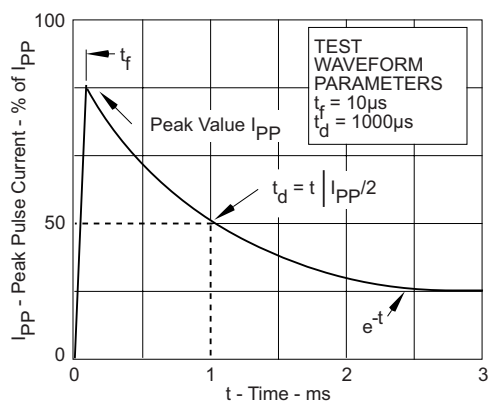
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GRAPHS

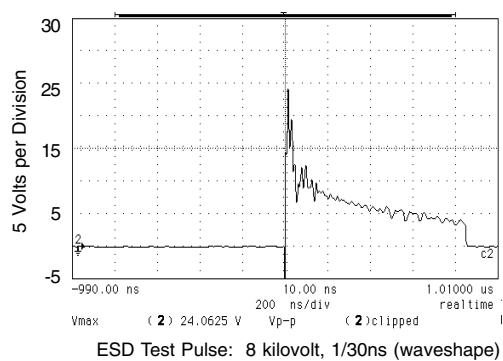
**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**



**FIGURE 2
PULSE WAVE FORM**

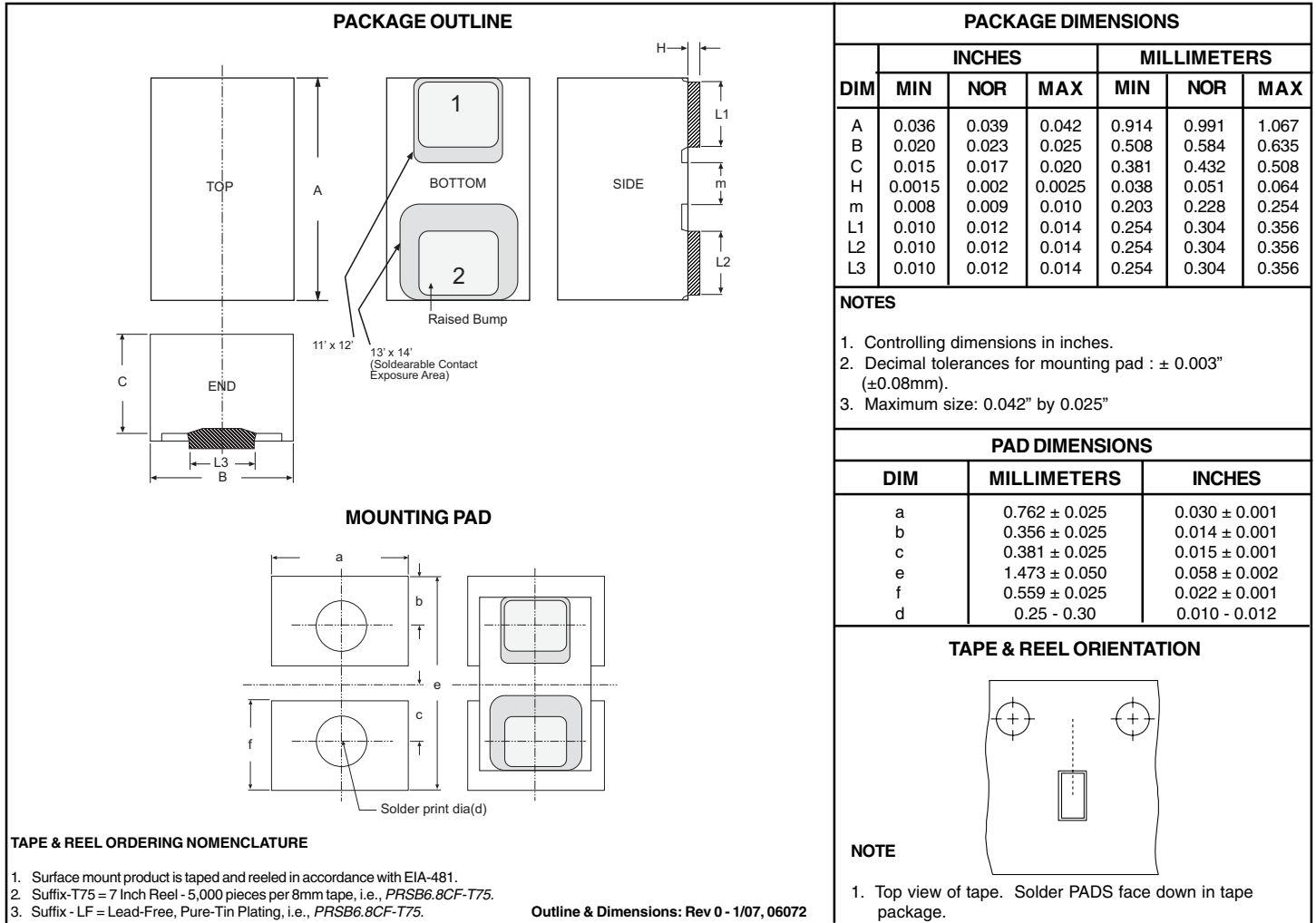


**FIGURE 3
OVERSHOOT & CLAMPING VOLTAGE**



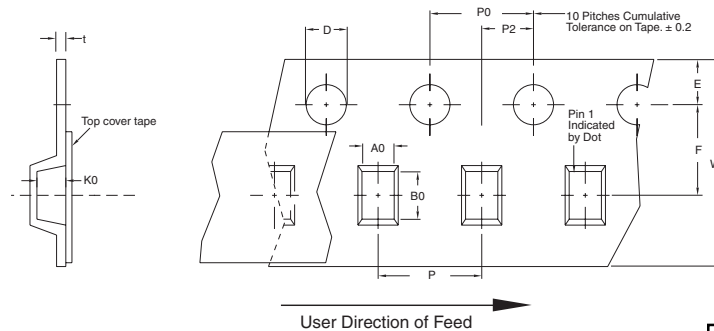
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DFN-2CF PACKAGE OUTLINE & DIMENSIONS



TAPE & REEL SPECIFICATIONS (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")/330mm(13")	8mm	0.80± 0.10	1.20± 0.10	0.70 ± 0.10	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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