

LOW CAPACITANCE TVS ARRAY

APPLICATIONS

- ✓ Cellular Phones
- ✓ Color LCD Display Panel
- ✓ Notebooks
- ✓ Personal Digital Assistant (PDA)
- ✓ Global Positioning System (GPS)
- ✓ SMART Cards

IEC COMPATIBILITY (EN61000-4)

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

FEATURES

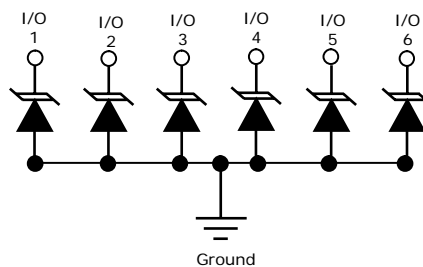
- ✓ ESD Protection > 25 kilovolts
- ✓ Protects up to 6 Data Lines
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ DFN-6 Package
- ✓ Available in Lead-Free Nickel-Paladium-Gold Plating
- ✓ Solder Reflow Temperature:
Nickel-Paladium-Gold (Ni/Pd/Au) Sn/Ag/Cu: 260-270°C
- ✓ Consult Factory for Leaded Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ Device Marking: Marking Code
- ✓ 8mm Tape and Reel Per EIA Standard 481



PIN CONFIGURATION



ESD6-DFN

DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_A	-40 to 85	°C
Storage Temperature	T_{STG}	-55 to 150	°C
Typical Capacitance @ 2.5V	C	7.0	pF
Soldering Temperature for 10 seconds	T_L	265	°C
Typical Forward Voltage @10mA	V_F	1.2	V

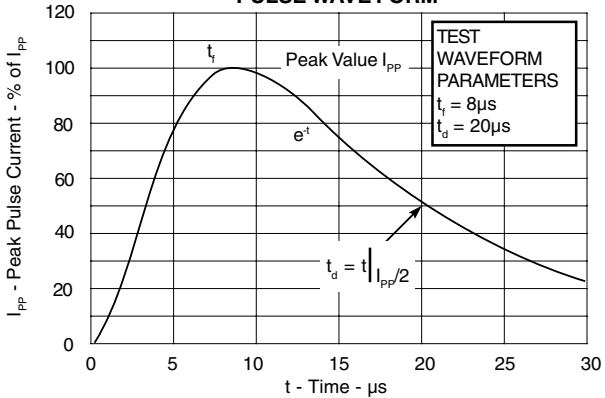
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER	DEVICE MARKING	RATED STAND-OFF VOLTAGE V_{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE @ $I_p = 1A$ V_c VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT @ 3V I_b μA	TYPICAL CAPACITANCE (See Note 1) 2.5V @ 1 MHz C pF
ESD6-DFN	SD6	5.0	6.0	9.8	0.1	7.0

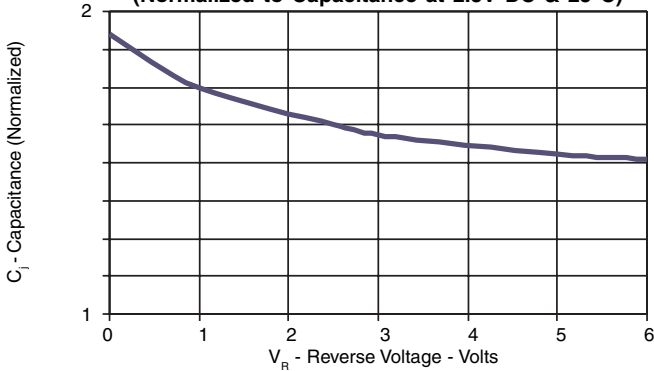
Note 1: 12pF @ 0V, 1MHz typical.

GRAPHS

**FIGURE 1
PULSE WAVE FORM**

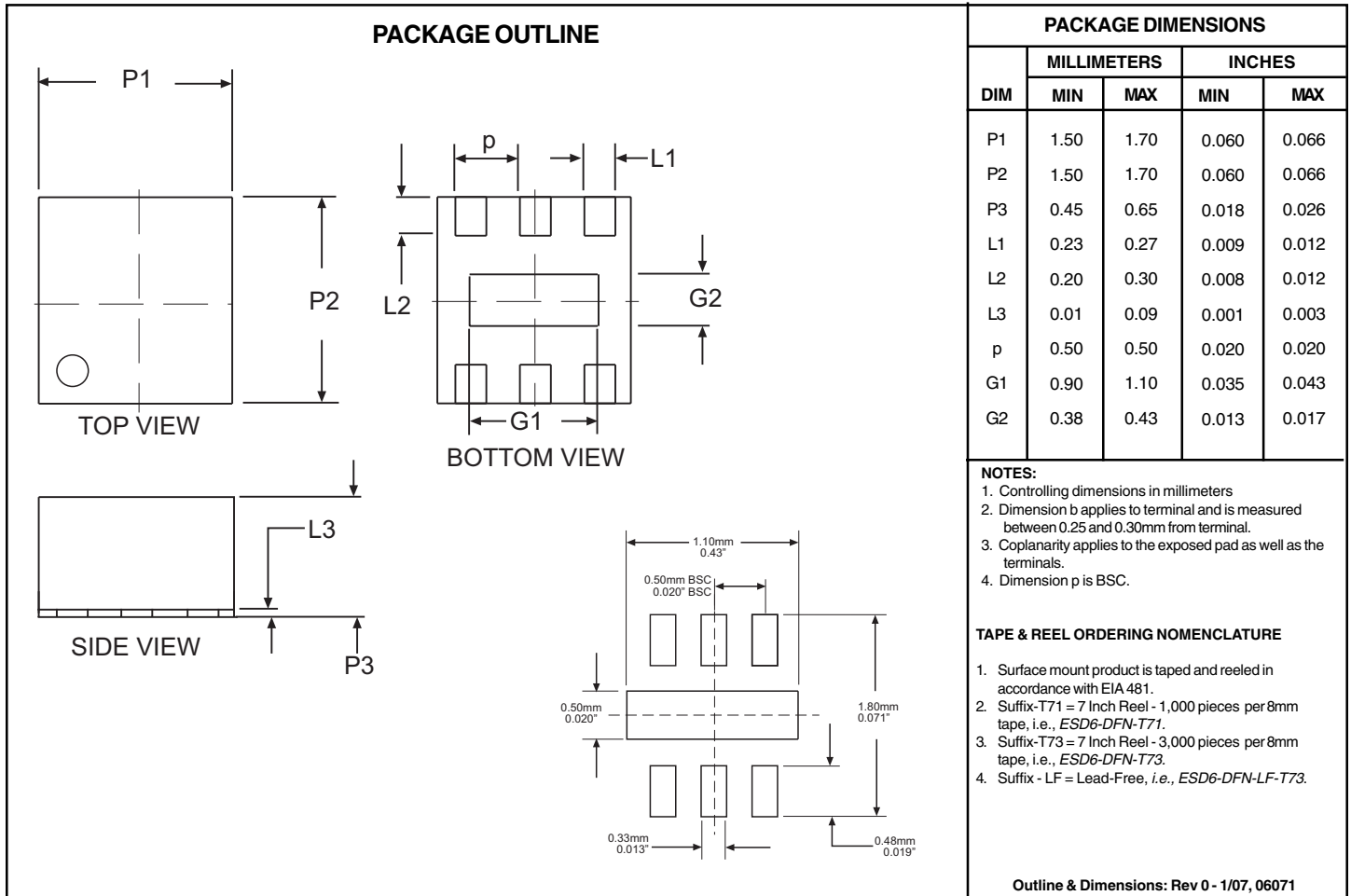


**FIGURE 2
CAPACITANCE VS REVERSE VOLTAGE
(Normalized to Capacitance at 2.5V DC & 25°C)**



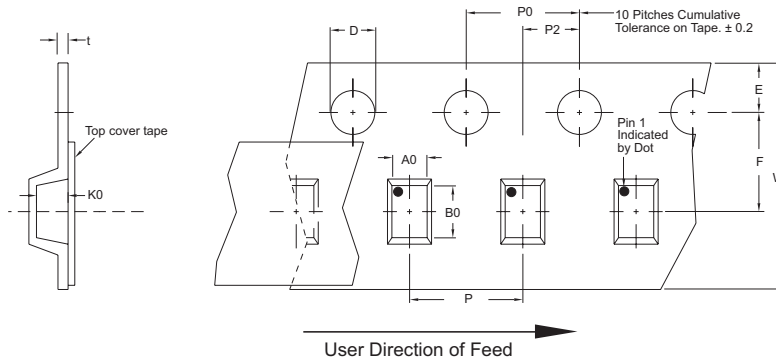
ESD6-DFN

DFN-6 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	1.80±0.10	1.80±0.10	0.80 ± 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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