

STANDARD CAPACITANCE TVS ARRAY**APPLICATIONS**

- ✓ RS-232, RS-422 & RS-423 Data Lines
- ✓ Microprocessor Based Equipment
- ✓ Control & Monitoring Systems
- ✓ Modems
- ✓ Portable Electronics
- ✓ Medical Electronics

IEC COMPATIBILITY (EN61000-4)

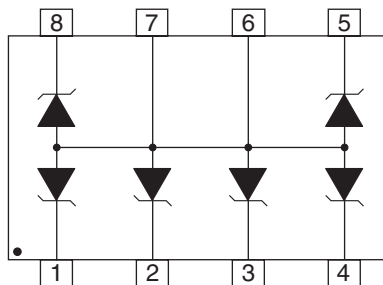
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 12A, 8/20μs - Level 1(Line-Gnd) & Level 2(Line-Line)

FEATURES

- ✓ 300 Watts Peak Pulse Power per Line (tp=8/20μs)
- ✓ Protects 6 Unidirectional Lines: Pins 1, 2, 3, 4, 5, 8 to Data Lines, Pins 6 & 7 to Ground
- ✓ Protects 5 Bidirectional Lines: Pins 1, 2, 3, 4 to Data Lines, Pins 5 & 8 to Ground
- ✓ ESD Protection > 40 kilovolts
- ✓ Protects 3.0 Volt Components
- ✓ Low Clamping Voltage

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-8 Package
- ✓ Weight 15 milligrams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ 12mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Logo, Marking Code, Date Code & Pin One Defined By Dot on Top of Package

**PIN CONFIGURATION**

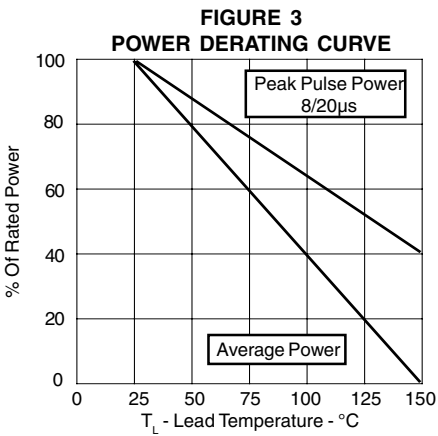
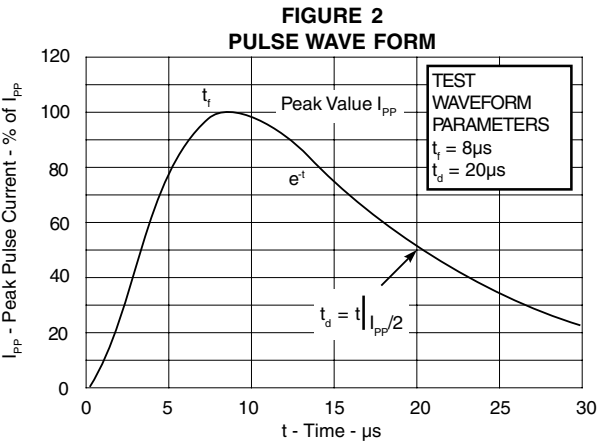
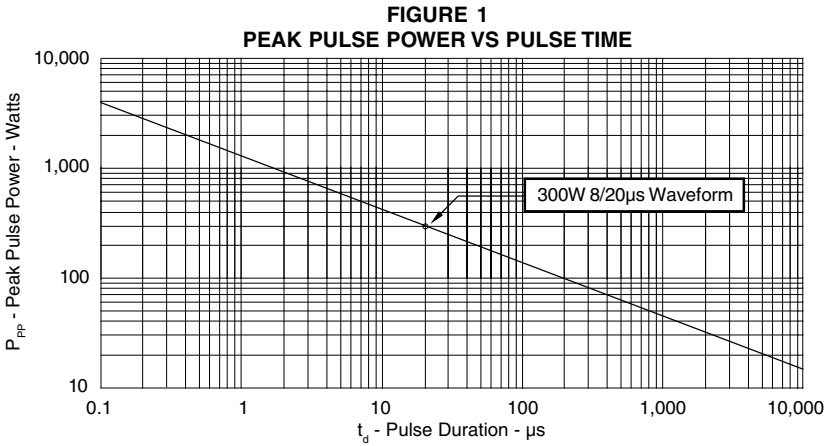
DEVICE CHARACTERISTICS

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}	300	Watts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C

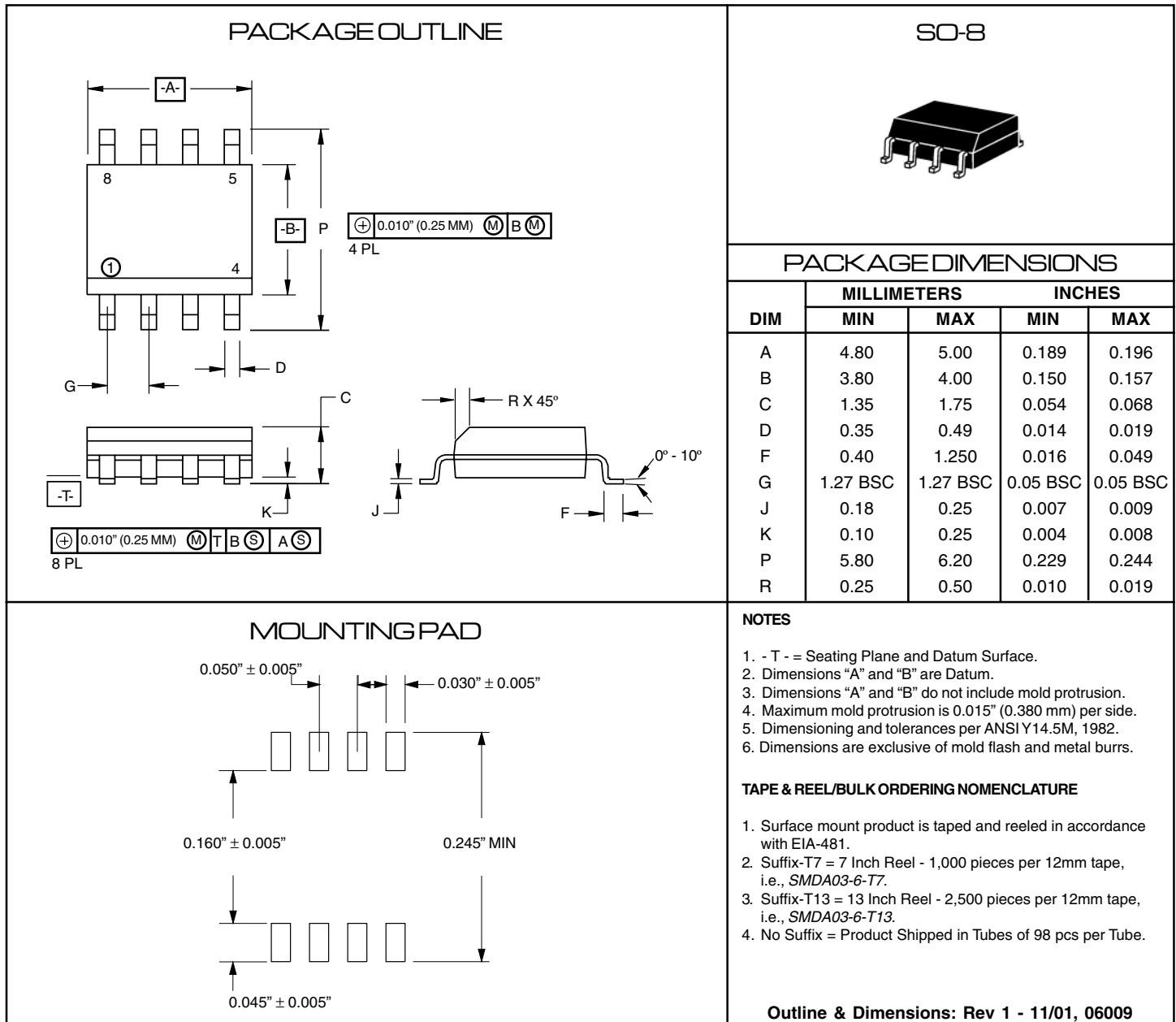
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER (See Note 1)	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM CLAMPING VOLTAGE (See Fig. 2)	MAXIMUM LEAKAGE CURRENT	MAXIMUM CAPACITANCE PER LINE
		V_{WM} VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ $I_p = 1A$ V_C VOLTS	@ 8/20 μs $V_C @ I_{PP}$	@ V_{WM} I_D μA	@ 0V, 1 MHz C pF
SMDA03-6	QEA	3.3	4.0	7.0	19.0V @ 20A	75	300

Note 1: Test from individual pins 8, 1, 2, 3, 4 and 5 to ground pins 6 and 7 (Unidirectional Only).

GRAPHS



PACKAGE OUTLINE & DIMENSIONS



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