

LOW CAPACITANCE TVS ARRAY**APPLICATIONS**

- ✓ T1/E1 Line Cards
- ✓ ISDN Telecom Equipment
- ✓ xDSL, USB, SCSI & Ethernet Interfaces
- ✓ Cellular Base Stations
- ✓ Data & Bus Lines for FCC Part 68 Applications

IEC COMPATIBILITY (EN61000-4)

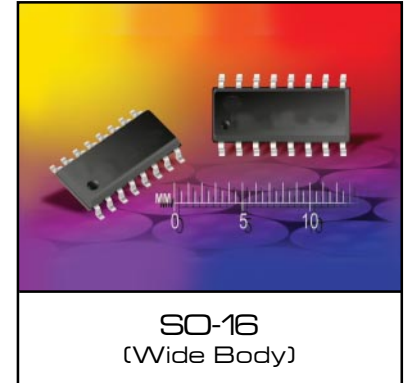
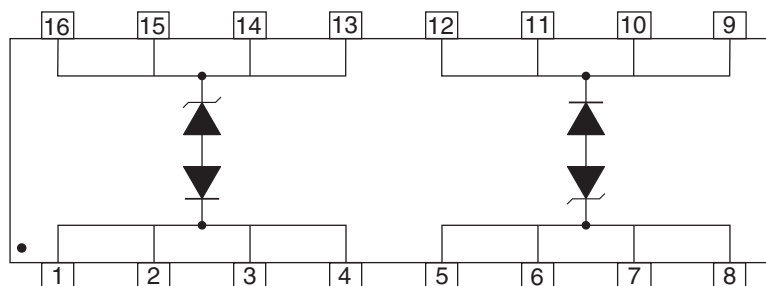
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 48A, 8/20 μ s, L3(Line-Gnd), L4(Line-Line) & L1(Power)

FEATURES

- ✓ **ESD PROTECTION > 40 kilovolts**
- ✓ 1,500 Watts Peak Pulse Power per Line (tp=10/1000 μ s)
- ✓ Low Clamping Voltage
- ✓ 100A (10/1000 μ s) per Bellcore 1089(Intra-Building)
- ✓ 200A (10/160 μ s) per FCC Part 68
- ✓ Bidirectional Configuration
- ✓ Protects 1 Line
- ✓ RoHS Compliant in Lead-Free Versions

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-16 (Wide Body) Package
- ✓ Weight 0.5 grams (Approximate)
- ✓ Available in Tin-Lead or Lead-Free Pure-Tin Plating(Annealed)
- ✓ Solder Reflow Temperature:
 - Tin-Lead - Sn/Pb, 85/15: 240-245°C
 - Pure-Tin - Sn, 100: 260-270°C
- ✓ Flammability rating UL 94V-0
- ✓ 16mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Logo, Part Number, 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 (td = 10/1000µs) - See Figure 1	P _{PP}	1,500	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)	RATED STAND-OFF VOLTAGE V _{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA V _(BR) VOLTS	MAXIMUM CLAMPING VOLTAGE (See Note 2) @ I _p = 100A V _C VOLTS	MAXIMUM CLAMPING VOLTAGE (See Note 3) @ I _p = 200A V _C	MAXIMUM LEAKAGE CURRENT @ V _{WM} I _b µA	TYPICAL CAPACITANCE @ 0V, 1 MHz C pF
PLC01-6	6.0	8.0	15.0	16.0	25	50

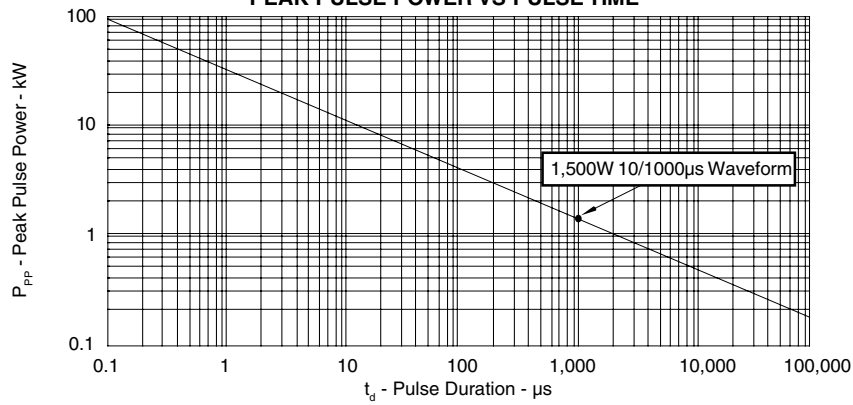
Note 1: Electrical characteristics apply from pins 13-16 to 1-4 and 5-8 to 9-12; see circuit diagram.

Note 2: V_C tested at 10/1000µs impulse waveform.

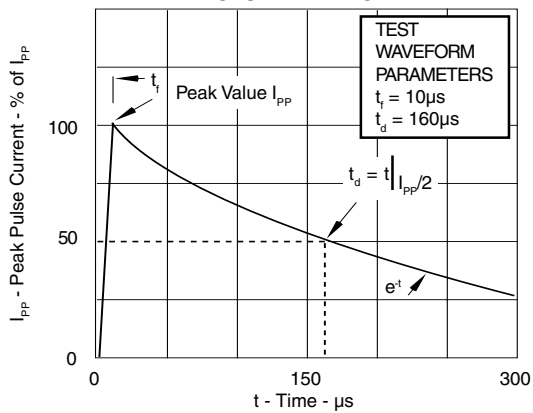
Note 3: 10/160µs impulse waveform per FCC Part 68.

GRAPHS

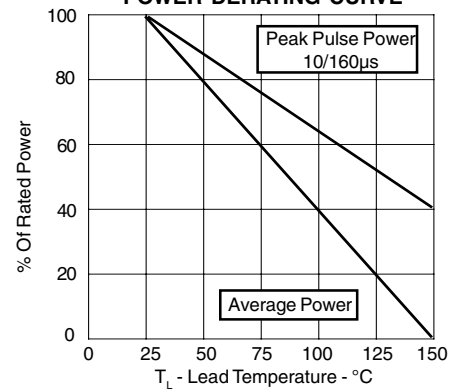
**FIGURE 1
PEAK PULSE POWER VS PULSE TIME**



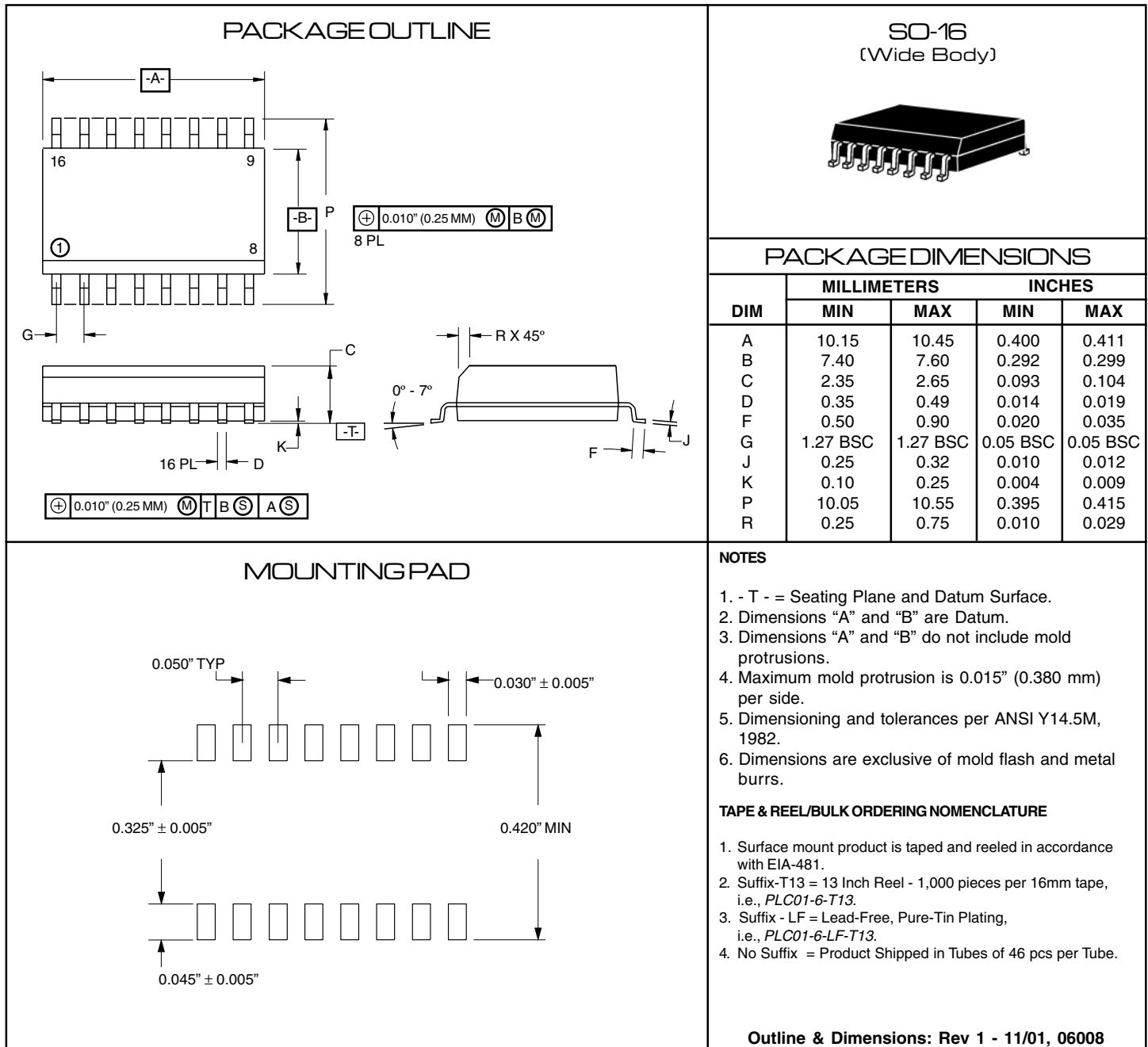
**FIGURE 2
PULSE WAVE FORM**



**FIGURE 3
POWER DERATING CURVE**



PACKAGE OUTLINE & DIMENSIONS



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