

LOW CAPACITANCE STEERING DIODE ARRAY

APPLICATIONS

- ✓ Ethernet - 10 Base T
- ✓ RS-422 & RS-485
- ✓ Microcontrollers
- ✓ USB Interface

IEC COMPATIBILITY (EN61000-4)

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



SO-8

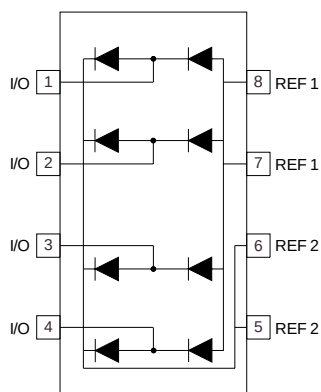
FEATURES

- ✓ ESD Protection > 25 kilovolts
- ✓ Protects up to Four (4) I/O Ports
- ✓ **LOW CAPACITANCE 6pF PER DIODE**

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-8
- ✓ Weight 0.6 grams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ 12mm Tape and Reel Per EIA Standard 481-1-A
- ✓ Device Marking Code & Logo
- ✓ Pin One Defined By DOT on Top of Package

CIRCUIT DIAGRAM

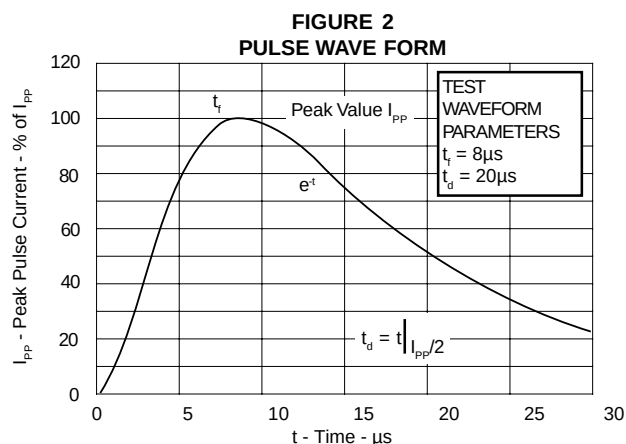
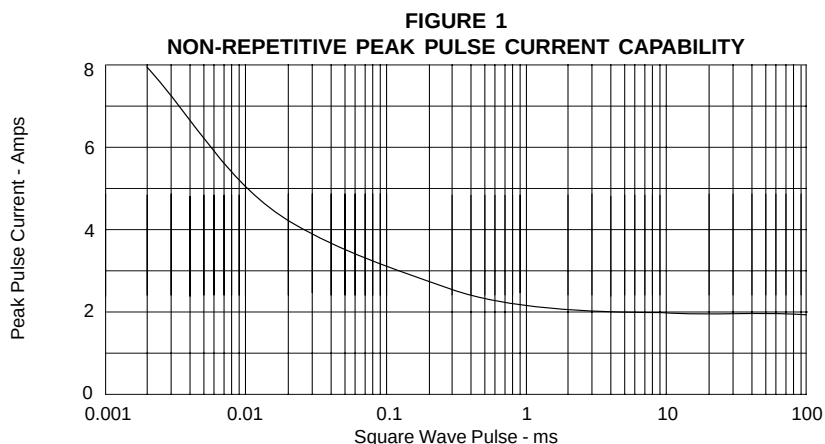


DEVICE CHARACTERISTICS

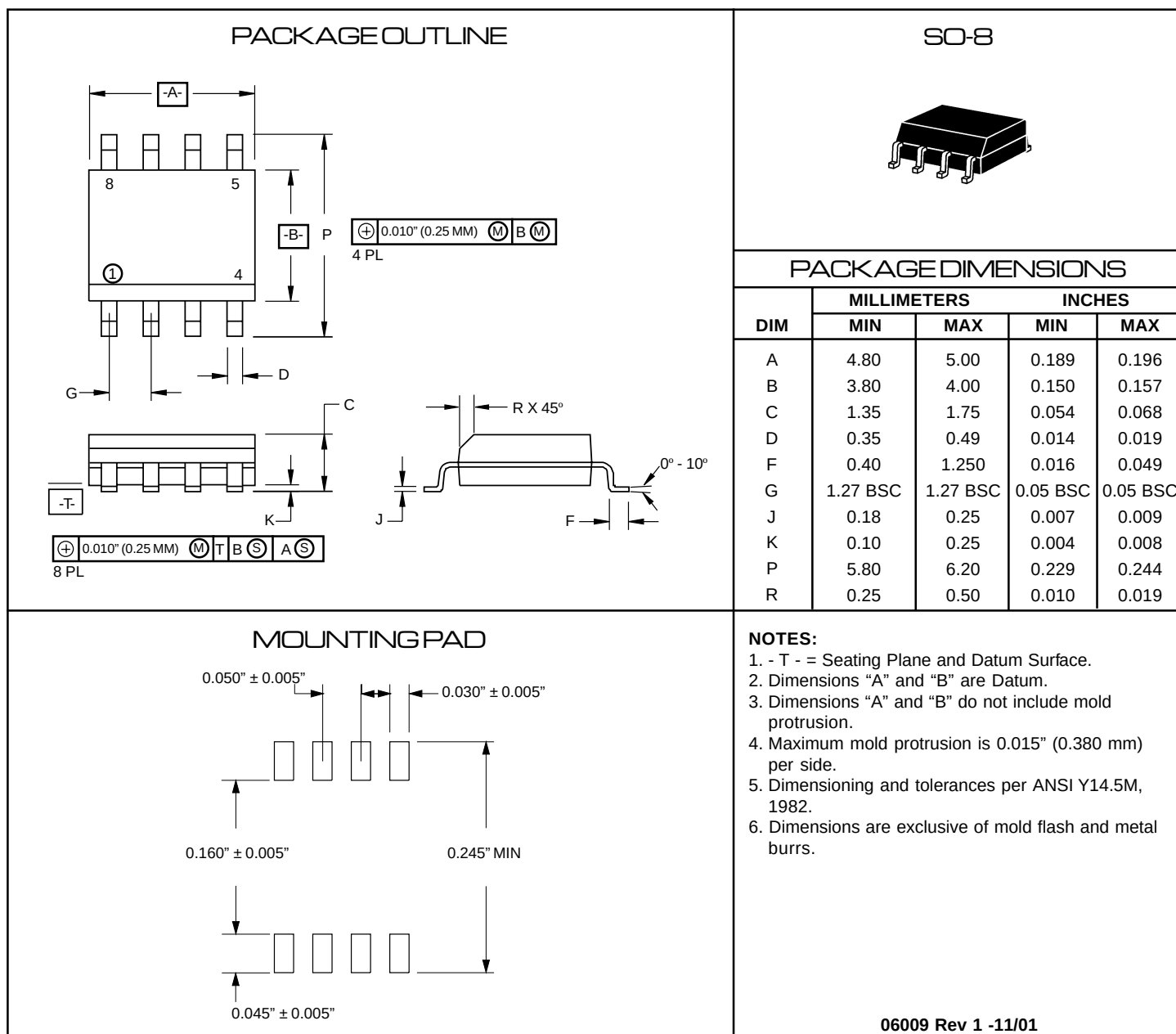
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	730	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE V_{RRM} VOLTS	MAXIMUM FORWARD VOLTAGE $I_F = 50mA$ V_F VOLTS	MAXIMUM PEAK PULSE CURRENT (See Figure 2) @ 8/20μs I_{FM} AMPS	MAXIMUM FORWARD VOLTAGE @12A 8/20μs VOLTS	MAXIMUM LEAKAGE CURRENT @ V_{RM} I_R μA	MAXIMUM CAPACITANCE (See Note 1) C pF
ET108	ET108	25	1.2	12	9	2	6

Note 1: V_{CC} (Between Reference 2 and Reference 1), = 5V, $f = 1$ MHz.



PACKAGE OUTLINE & DIMENSIONS



TAPE & REEL PACKAGING:

Surface mount product is taped and reeled in accordance with EIA-481, reel quantities and sizes are as follows:

7 Inch Reel - 1,000 pieces per reel; 13 Inch Reel - 2,500 pieces per reel

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SPECIFICATIONS: ProTek reserves the right to change the electrical and or mechanical characteristics described herein without notice (except JEDEC).

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