

STEERING DIODE ARRAY**APPLICATIONS**

- ✓ Ethernet - 10/100/1000 Base T
- ✓ RS-422 & RS-485
- ✓ Microcontrollers
- ✓ USB Interface

IEC COMPATIBILITY (EN61000-4)

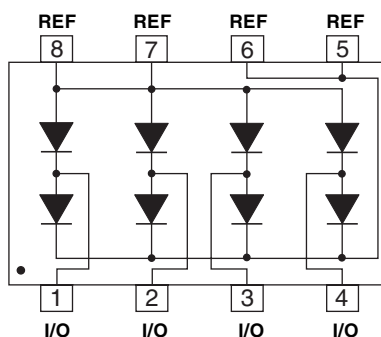
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 12A, 8/20 μ s - Level 1(Line-Gnd) & Level 2(Line-Line)

FEATURES

- ✓ ESD Protection > 40 kilovolts
- ✓ Provides Six (6) Lines of Protection
- ✓ Low Leakage Current < 2.0 μ A
- ✓ Low Capacitance: 6pF per Diode
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-8
- ✓ Weight 70 milligrams (Approximate)
- ✓ Available in Lead-Free Pure-Tin Plating(Annealed)
- ✓ Solder Reflow Temperature:
Pure-Tin - Sn, 100: 260-270°C
- ✓ Consult Factory for Leaded Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ 12mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Part Number, Logo, 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
Operating Temperature	T_A	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C
Continuous Power Dissipation	P_{PC}	730	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK REVERSE VOLTAGE V_{RRM} VOLTS	MAXIMUM FORWARD VOLTAGE 8/20 μ s @ 50mA V_F VOLTS	MAXIMUM PEAK PULSE FORWARD CURRENT (See Fig. 2) 8/20 μ s I_{FM} AMPS	MAXIMUM FORWARD VOLTAGE 8/20 μ s @ 12A V_F VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT @ V_{RRM} I_R μ A	TYPICAL CAPACITANCE (See Note 1) C_j pF
ET108	ET108	25	1.2	12	9	2	6

Note 1: Apply a 5V bias between pin 5 (REF 2) to pin 7 (REF 1). Measure C_j between any I/O pins to pin 7 (REF 1) and divide by 2.

FIGURE 1
NON-REPETITIVE PEAK PULSE CURRENT CAPABILITY

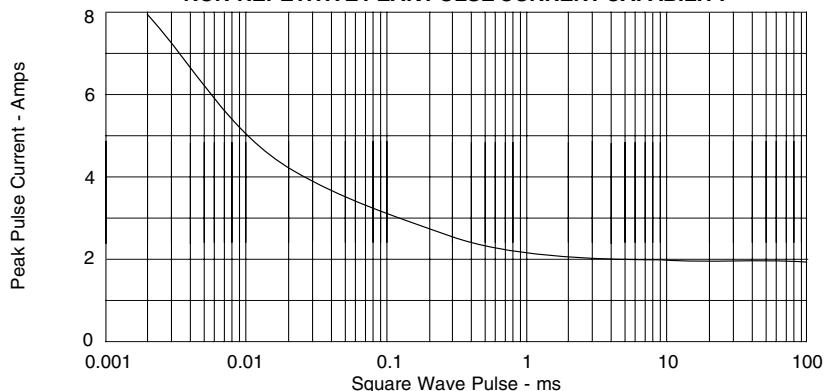
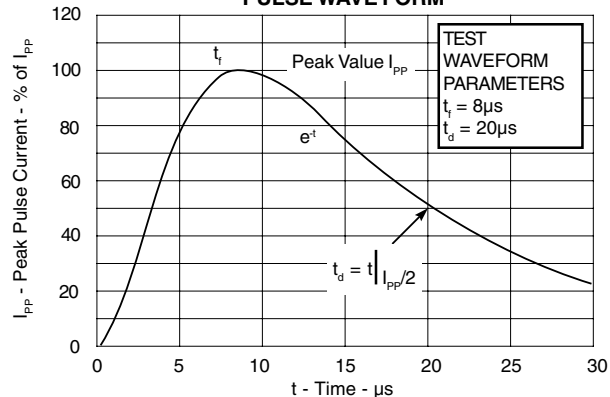
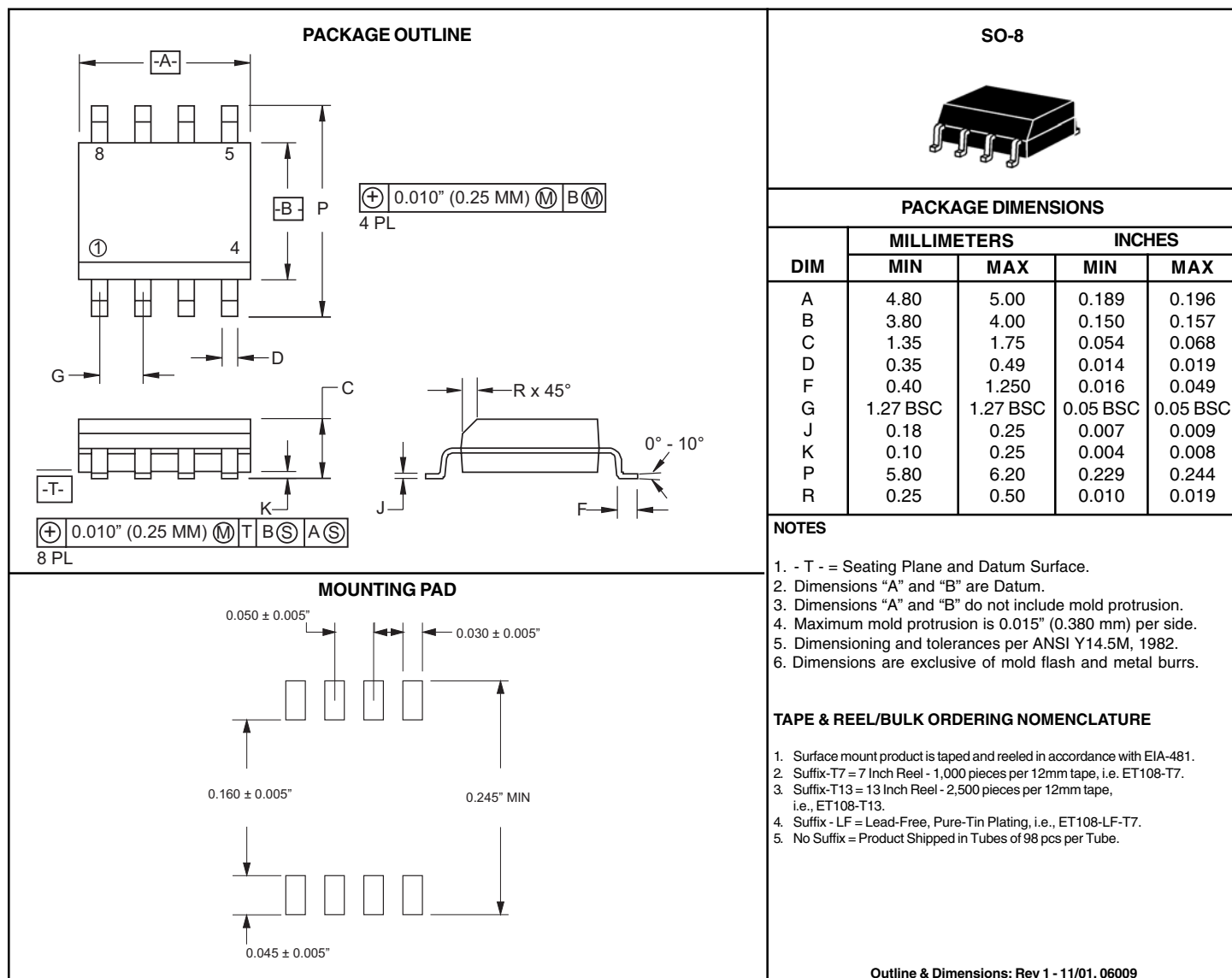


FIGURE 2
PULSE WAVE FORM



SO-8 PACKAGE OUTLINE & DIMENSIONS



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