

ULTRA LOW CAPACITANCE STEERING DIODE ARRAY

APPLICATIONS

- ✓ Notebook & Desktop PCs
- ✓ Cellular Phones
- ✓ Video Port Protection
- ✓ Hand-held Electronics
- ✓ Personal Digital Assistants (PDAs)

IEC COMPATIBILITY (EN61000-4)

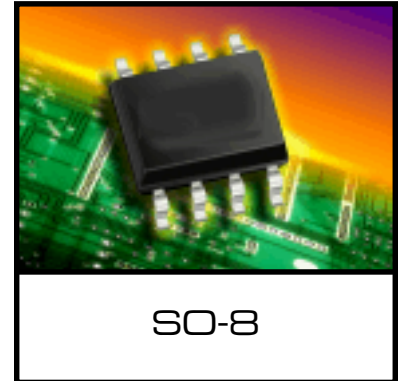
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

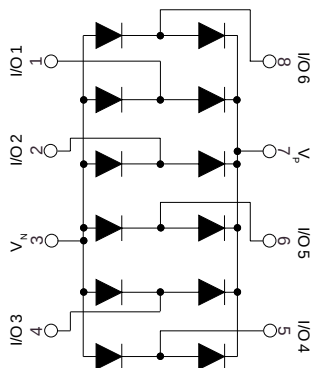
- ✓ Provides Protection For Up to 6 I/O Lines
- ✓ 350mW Continuous Power Dissipation
- ✓ **LOW STANDBY CURRENT < 1.0μA**
- ✓ **ULTRA LOW CAPACITANCE 3pF PER DIODE**

MECHANICAL CHARACTERISTICS

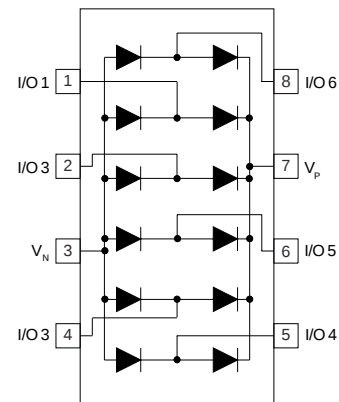
- ✓ Molded JEDEC SO-8
- ✓ Weight 0.6 grams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ 12mm Tape and Reel Per EIA Standard 481-1-A
- ✓ Device Marking: Part Number & Logo
- ✓ Pin One Defined By DOT on Top of Package



CIRCUIT DIAGRAM



PIN CONFIGURATION

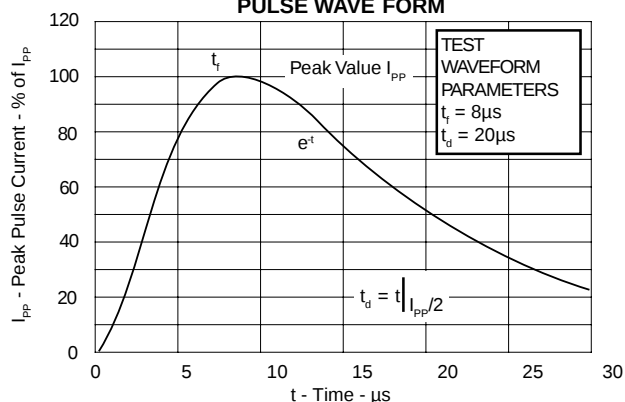


DEVICE CHARACTERISTICS

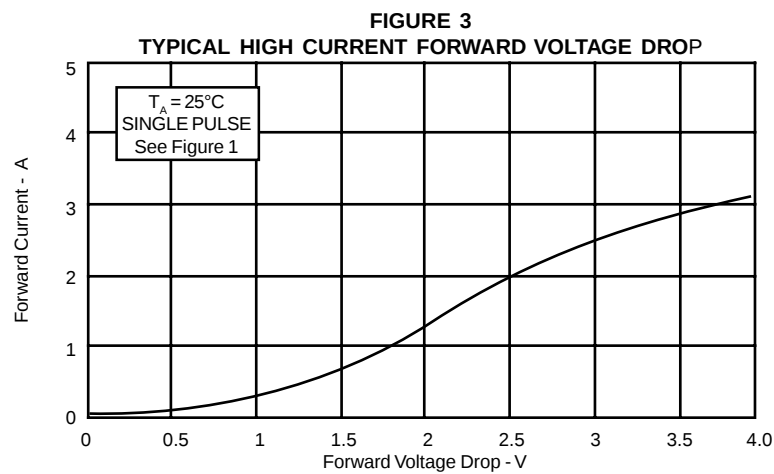
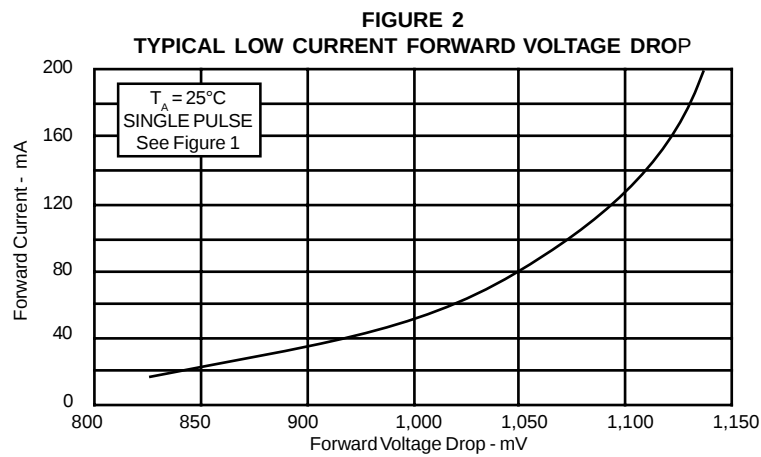
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	350	mW
Repetitive Peak Reverse Voltage	V_{RRM}	30	V

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified						
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE V_{RRM} VOLTS	MAXIMUM FORWARD VOLTAGE $I_F = 20mA$ V_F VOLTS	MAXIMUM PEAK PULSE CURRENT (See Figure 1) @ 8/20μs I_{FM} AMPS	MAXIMUM LEAKAGE CURRENT @5.5V I_R μA	TYPICAL CAPACITANCE @ 0V 1MHz C pF
IO6LC	IO6LC	30	0.95	3.5	0.1	3

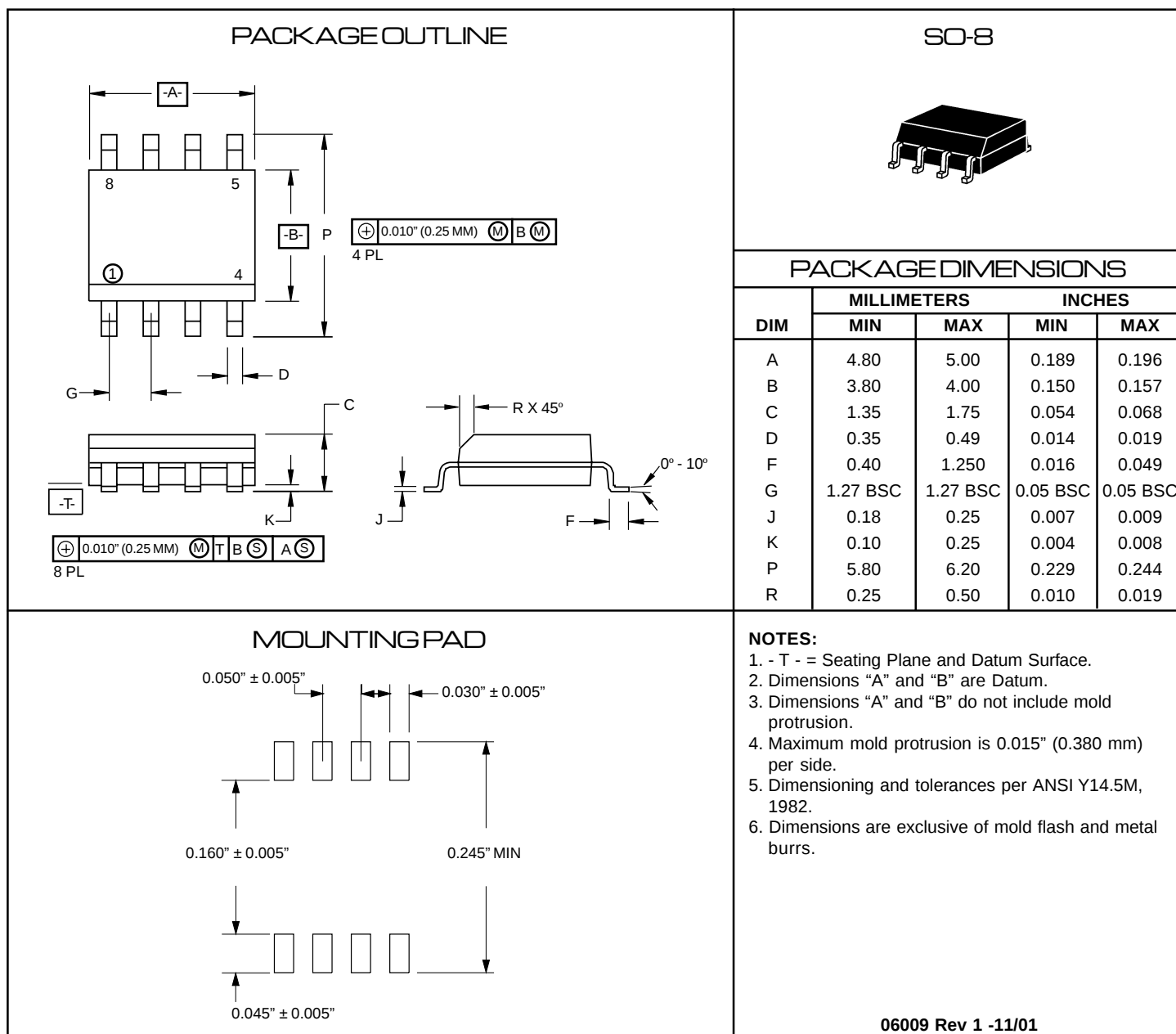
**FIGURE 1
PULSE WAVE FORM**



GRAPHS



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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