

STEERING DIODE ARRAY

APPLICATIONS

- ✓ Ethernet - 10/100/1000 Base T
- ✓ Cellular Phones
- ✓ Handheld Electronics
- ✓ FireWire
- ✓ 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

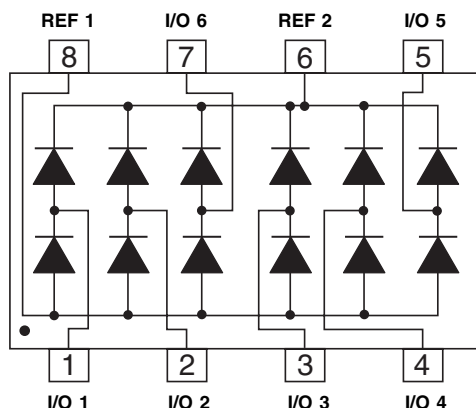
- ✓ ESD Protection > 40 kilovolts
- ✓ Low Clamping Voltage
- ✓ Provides Six (6) Lines of Protection
- ✓ **LOW LEAKAGE CURRENT < 200nA**
- ✓ **ULTRA LOW CAPACITANCE: 5pF Typical**
- ✓ RoHS Compliant on Lead-Free Versions

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-8
- ✓ Weight 70 milligrams (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
- ✓ 12mm Tape and Reel Per EIA Standard 481
- ✓ Marking: Marking Code, 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_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	145	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE	TYPICAL FORWARD VOLTAGE	MAXIMUM PEAK PULSE FORWARD CURRENT	MAXIMUM REVERSE LEAKAGE CURRENT	MAXIMUM QUIESCENT SUPPLY CURRENT	TYPICAL CAPACITANCE
		V_{RRM} VOLTS	@50mA V_F VOLTS	8/20 μ s I_{FM} AMPS	V_{RRM} @18V I_R nA	@20V I_{RQ} nA	@0V, 1 MHz C_j pF
DALC112S1	PSC	20	1.3	12	20	200	5

FIGURE 1
NON-REPETITIVE PEAK PULSE CURRENT CAPABILITY

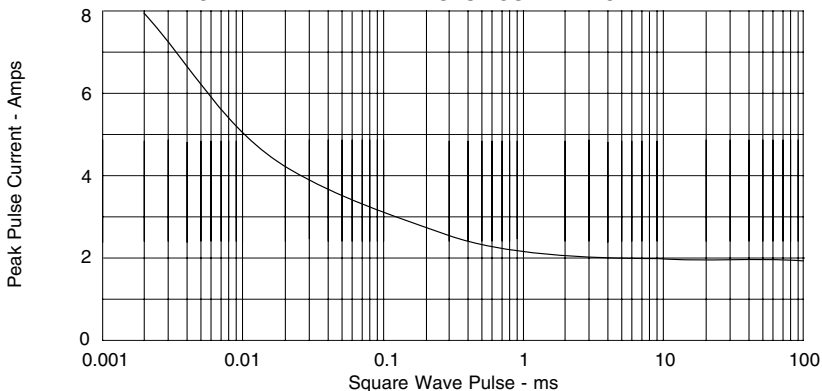
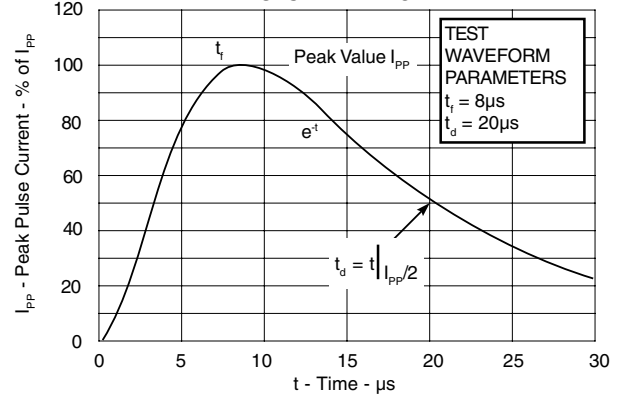
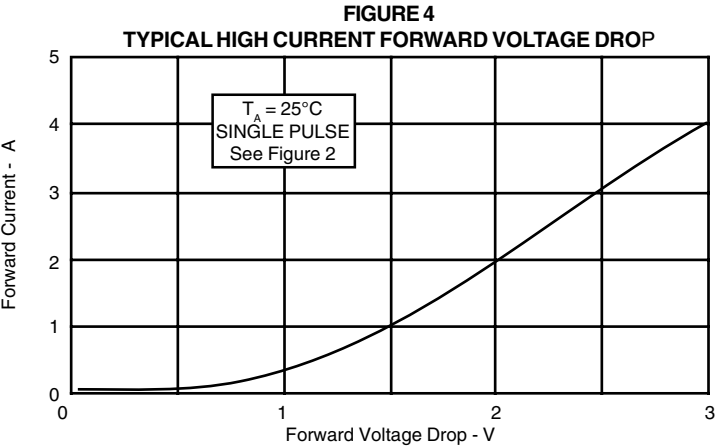
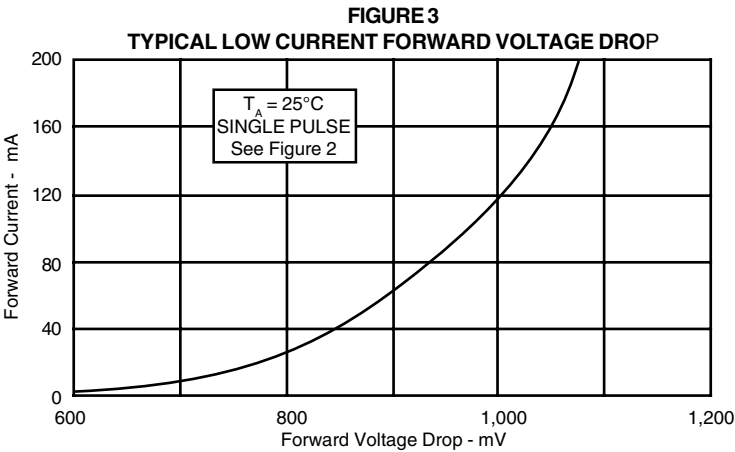


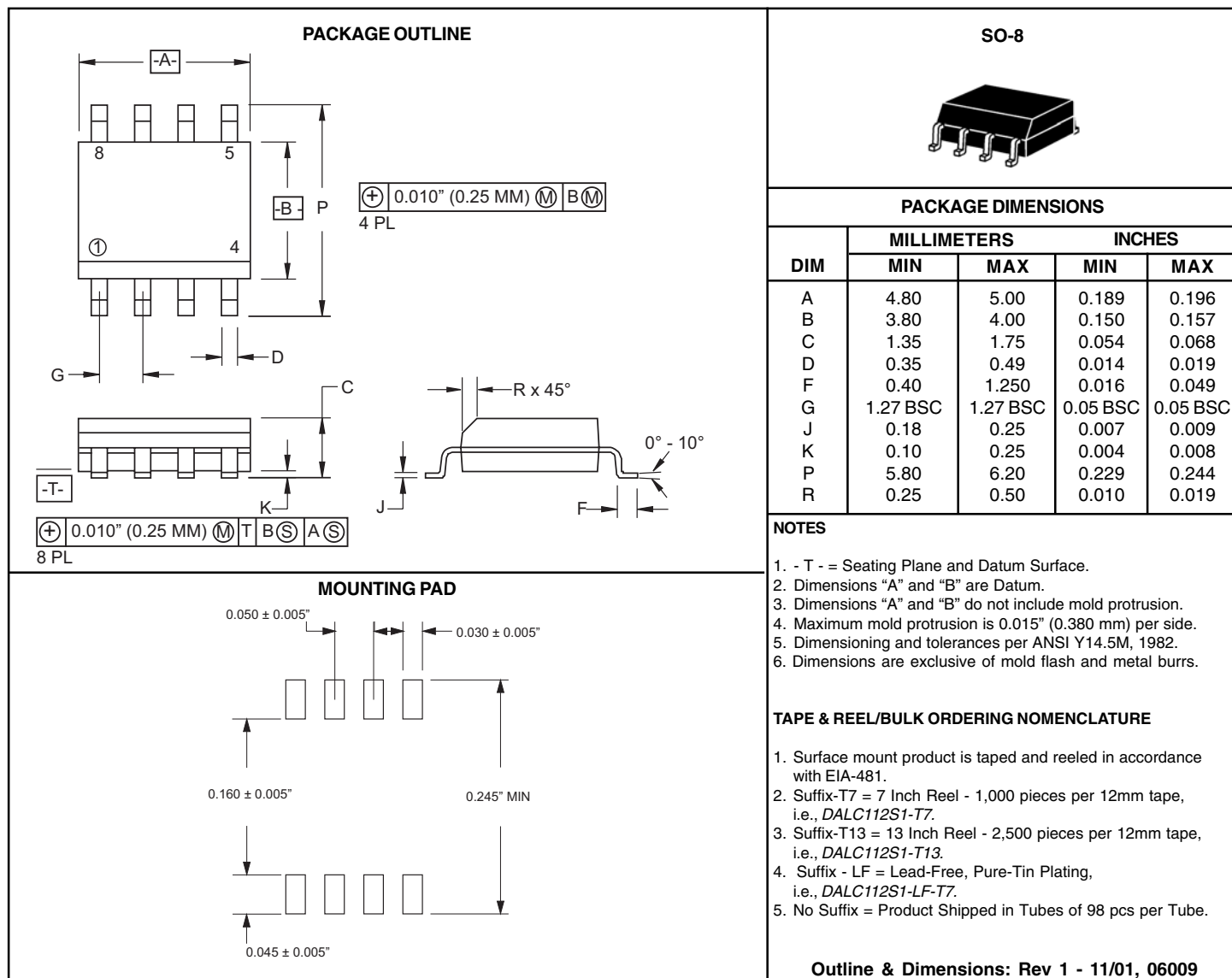
FIGURE 2
PULSE WAVE FORM



GRAPHS



PACKAGE OUTLINE & DIMENSIONS



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