

LOW CAPACITANCE STEERING DIODE ARRAY

APPLICATIONS

- ✓ USB Interface Ports
- ✓ Cellular Phones
- ✓ Video Interface Ports
- ✓ Desktop PCs
- ✓ 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

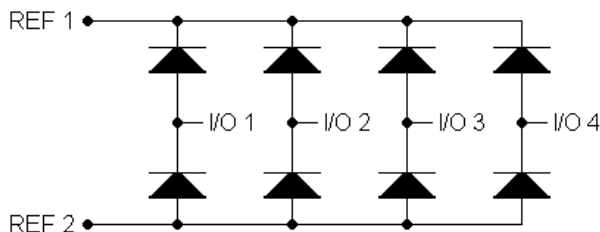
- ✓ 500 Milliwatt Continuous Power Dissipation
- ✓ ESD Protection > 25 kilovolts
- ✓ Protects 4 Lines
- ✓ **LOW STANDBY CURRENT < 1.0μA**
- ✓ **LOW CAPACITANCE 5pF PER DIODE**

MECHANICAL CHARACTERISTICS

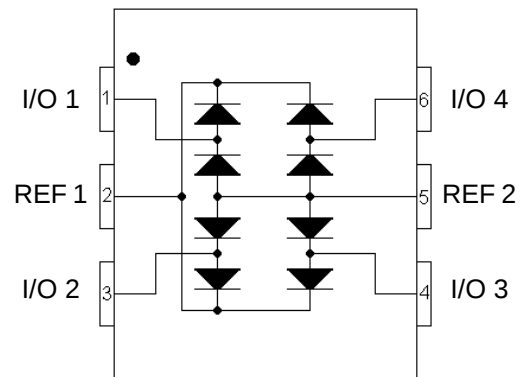
- ✓ Molded JEDEC SOT23-6L
- ✓ Weight 66 Milligrams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481-1-A
- ✓ Marking: Marking Code, Logo & Pin One Defined By DOT on Top of Package



CIRCUIT DIAGRAM



PIN CONFIGURATION

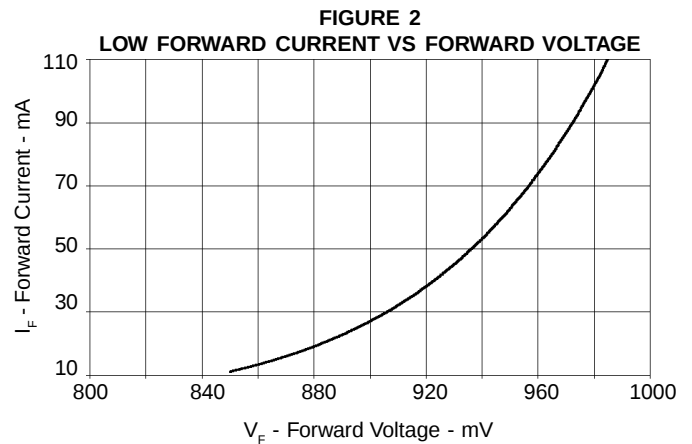
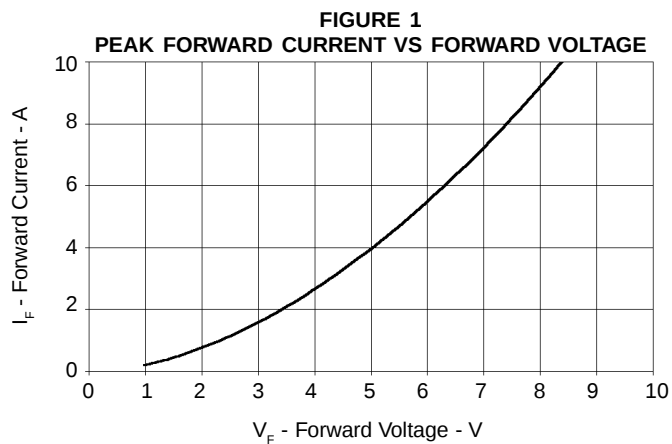


DEVICE CHARACTERISTICS

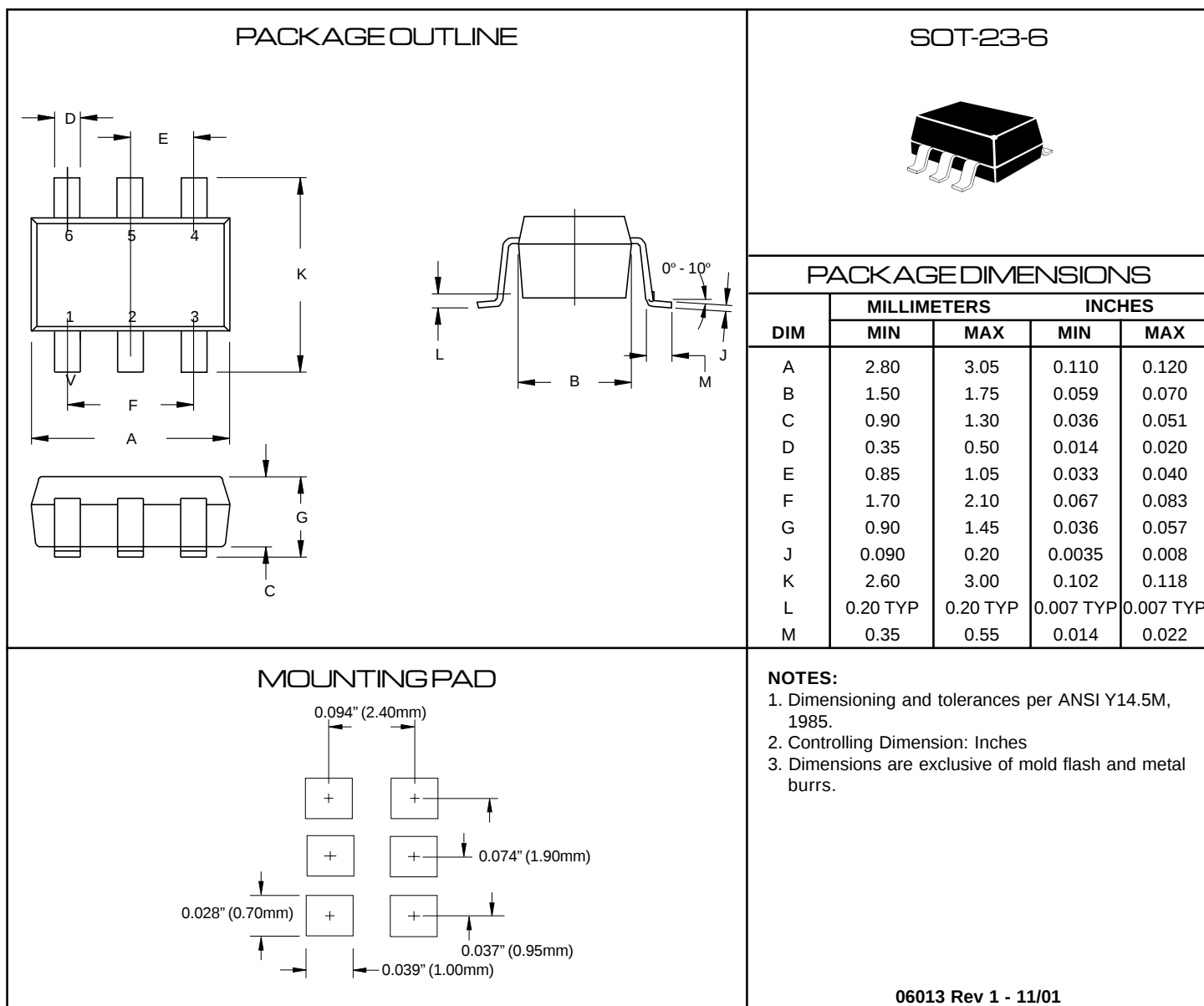
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	500	mW
Repetitive Peak Forward Current @ $t_p=5\mu s$, $F=50kHz$ (Pin 2 - 3)	I_{FRM}	700	mA

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified					
PART NUMBER	DEVICE MARKING CODE	REPETITIVE PEAK PULSE VOLTAGE @ 10 μA V_{RRM} VOLTS	MAXIMUM REVERSE LEAKAGE CURRENT (PER DIODE) @5V I_R μA	MAXIMUM FORWARD VOLTAGE @50mA V_F VOLTS	MAXIMUM CAPACITANCE (See Note 1) (Between I/O to Ref 2) pF
USB208	PSB	20	1	1.2	5

Note 1: V_{CC} (Between Reference 1 and Reference 2), = 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 - 3,000 pieces per reel; 13 Inch Reel - 10,000 pieces per reel

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