

ULTRA LOW CAPACITANCE 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

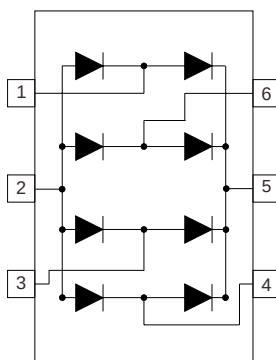
- ✓ ESD Protection > 40 kilovolts
- ✓ Low Clamping Voltage
- ✓ **LOW STANDBY CURRENT < 100nA**
- ✓ **ULTRA LOW CAPACITANCE 3pF PER DIODE**

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SOT-23-6
- ✓ Weight 0.6 grams (Approximate)
- ✓ Flammability Rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481-1-A
- ✓ Device Marking: Marking Code & Pin One Defined By DOT on Top of Package



CIRCUIT DIAGRAM



DEVICE CHARACTERISTICS

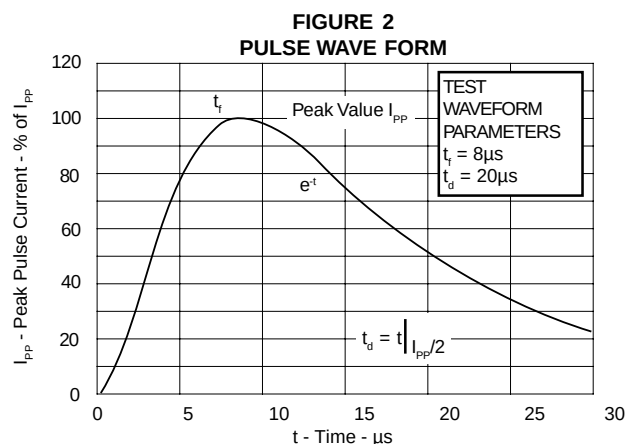
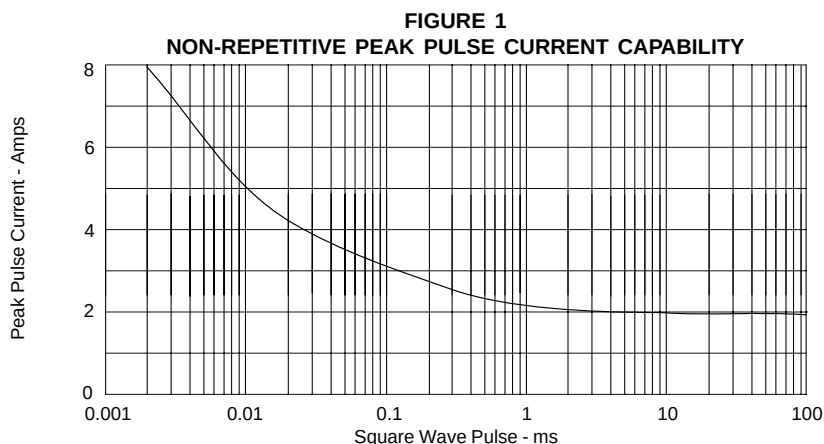
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C
Continuous Power Dissipation	P_{PC}	125	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING	MAXIMUM OPERATING VOLTAGE (See Note 1)	TYPICAL FORWARD VOLTAGE 1A @ 8/20μs V_F VOLTS	MAXIMUM FORWARD CURRENT 8/20μs I_{FM} AMPS	MAXIMUM LEAKAGE CURRENT (See Note 2) @20V I_N nA	MAXIMUM QUIESCENT SUPPLY CURRENT (See Note 3) @20V I_{RQ} nA	TYPICAL CAPACITANCE 0V @ 1 MHz C pF
ET724	724	20	2	12	10	100	3

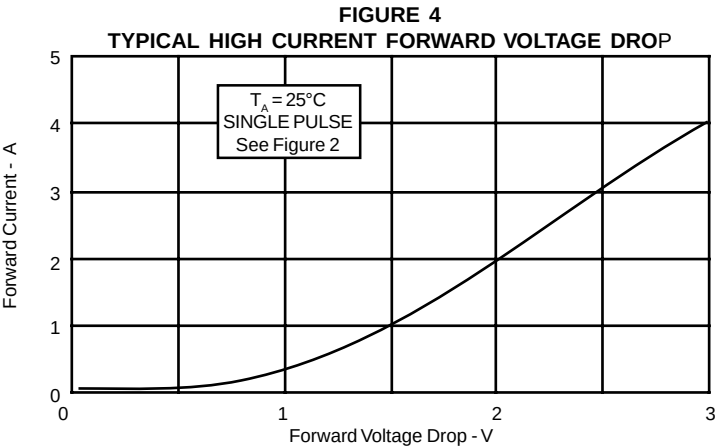
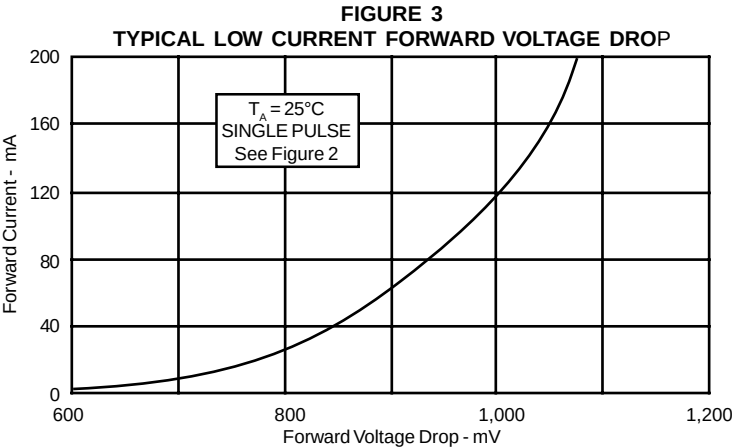
Note 1: V_{SUPPLY} is + V_{CC} for pin 5, - V_{EE} for pin 2. Pin 2 also represents ground for unidirectional applications.

Note 2: +20V from pin 5 to 1, 5 to 4, 5 to 3 and 5 to 6. -20V from pin 2 to 1, 2 to 3, 2 to 4 and 2 to 6.

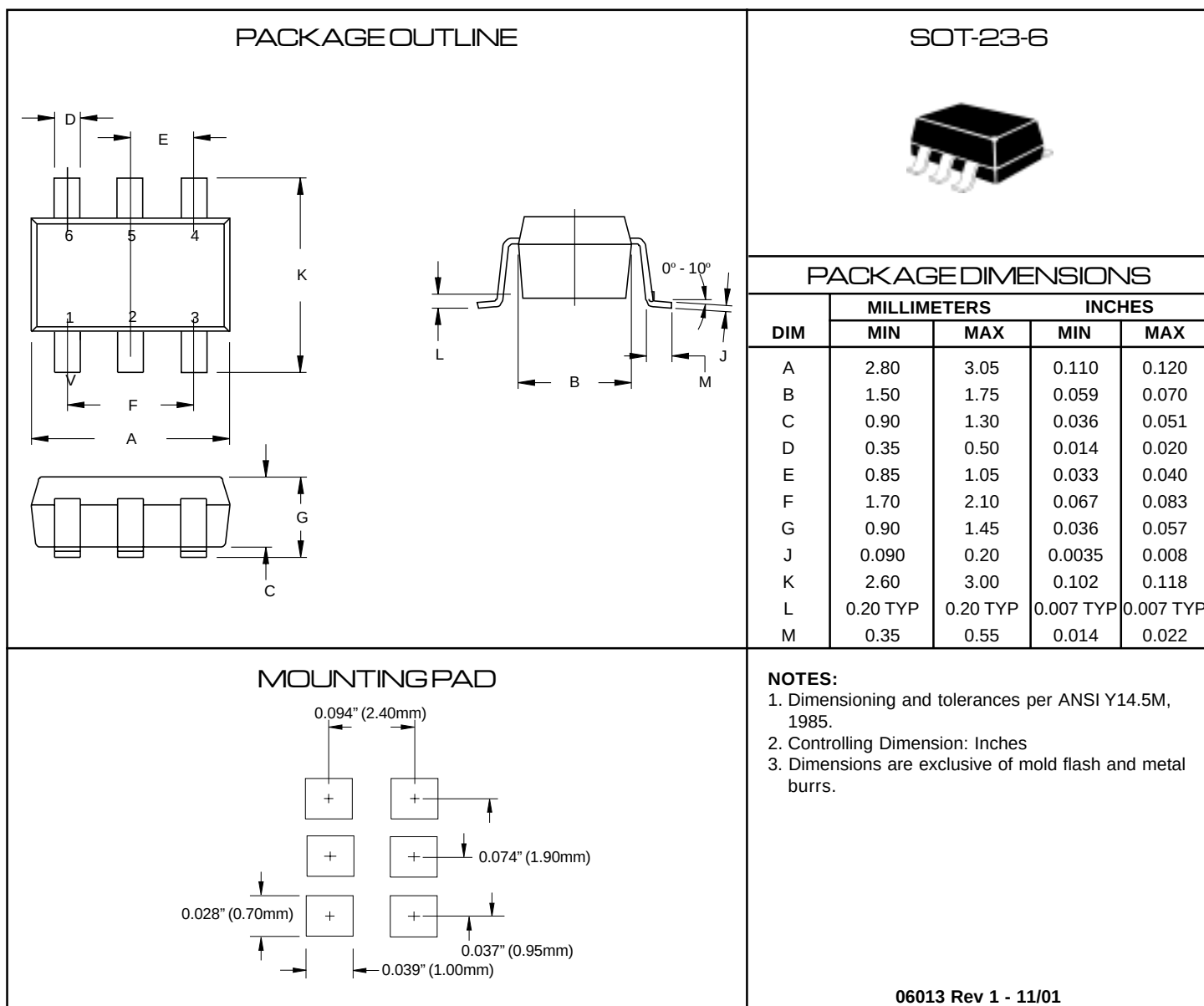
Note 3: +20v from pin 5 to 2.



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 - 3,000 pieces per reel; 13 Inch Reel - Not Available

ProTek Devices

2929 South Fair Lane, Tempe, AZ 85282

Tel: 602-431-8101 Fax: 602-431-2288

E-Mail: sales@protekdevices.com

Web Site: www.protekdevices.com

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