



ET720

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-Ground) & Level 2 (Line-Line)

FEATURES

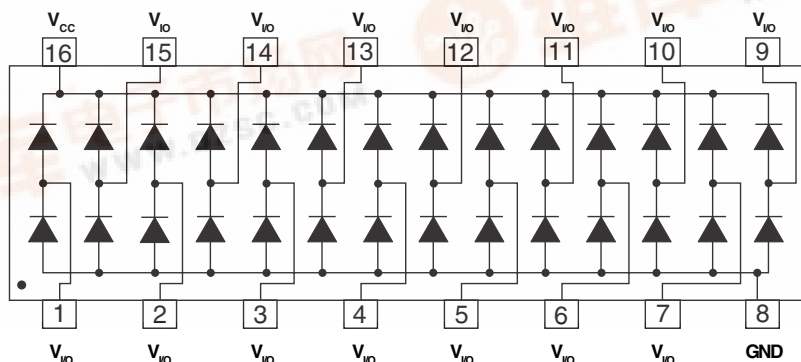
- ✓ ESD Protection > 40 kilovolts
- ✓ Provides 14 Lines of Protection
- ✓ Low Leakage Current < 20nA
- ✓ Ultra Low Capacitance: 3pF Typical
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SO-16 Package
- ✓ Weight 0.15 grams (Approximate)
- ✓ Available in Lead-Free Pure-Tin Plating(Annealed)
- ✓ Solder Reflow Temperature:
Pure-Tin - Sn, 100: 260-270°C
- ✓ Consult Factory for Leadless Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ 16mm Tape and Reel per EIA Standard 481
- ✓ Marking: Logo, Part Number, Date Code & Pin One Defined By Dot on Top of Package



PIN CONFIGURATION

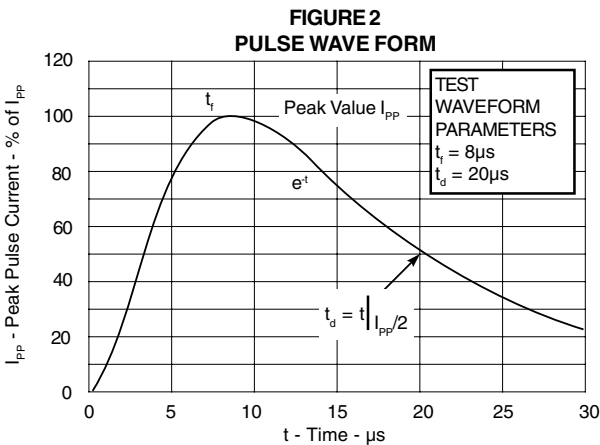
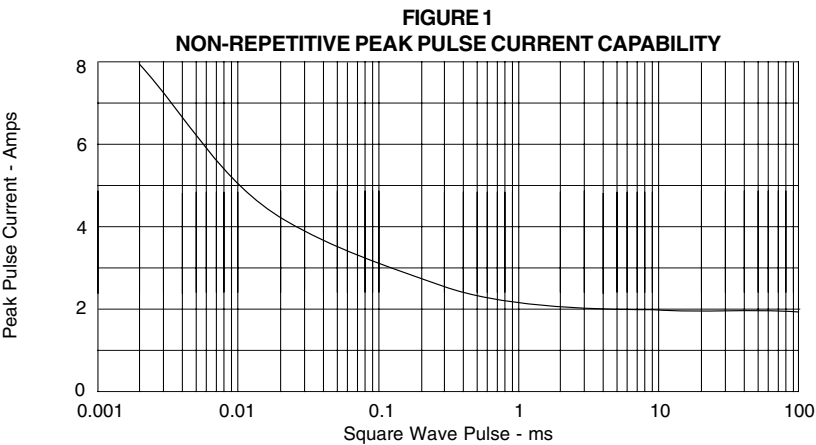


DEVICE CHARACTERISTICS

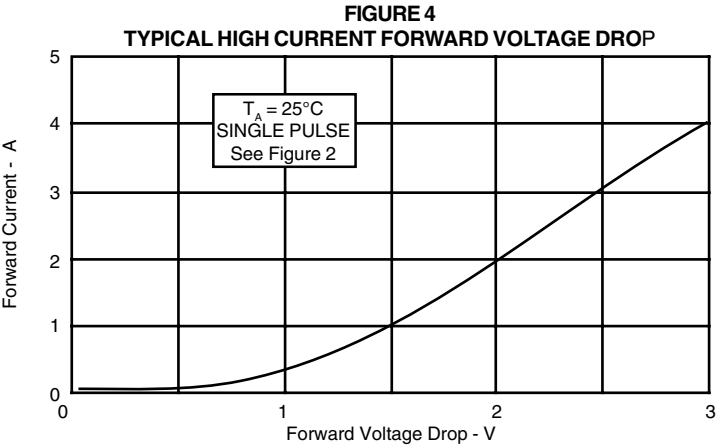
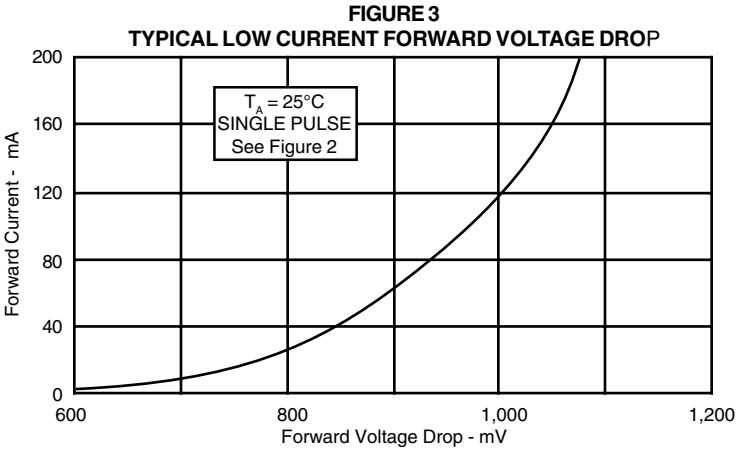
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T _A	-55 to 150	°C
Storage Temperature	T _{STG}	-55 to 150	°C
Continuous Power Dissipation	P _{PC}	145	mW

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE (See Note 1) V _{RRM} VOLTS	TYPICAL FORWARD VOLTAGE 8/20µs @ 1A V _F VOLTS	MAXIMUM PEAK PULSE FORWARD CURRENT 8/20µs I _{FM} AMPS	MAXIMUM REVERSE LEAKAGE CURRENT V _{RRM} @ 20V I _R nA	MAXIMUM QUIESCENT SUPPLY CURRENT @ 20V I _{RO} nA	TYPICAL CAPACITANCE (See Note 2) @ 0V, 1MHz C _j pF
ET720	ET720	30	2	12	20	200	3

Note 1: V_{RRM} is +V_{CC} for pin 16, -V_{EE} for pin 1.
Note 2: Measure C_j between any V_{IO} pins to ground and divide by 2.

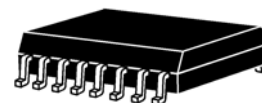


GRAPHS



SO-16 PACKAGE OUTLINE & DIMENSIONS

SO-16



PACKAGE DIMENSIONS

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	9.80	10.00	0.386	0.393
B	3.80	4.00	0.150	0.157
C	1.35	1.75	0.054	0.068
D	0.35	0.49	0.014	0.019
F	0.40	1.25	0.016	0.049
G	1.27 BSC	1.27 BSC	0.05 BSC	0.05 BSC
J	0.19	0.25	0.008	0.009
K	0.10	0.25	0.004	0.009
P	5.80	6.20	0.229	0.244
R	0.25	0.50	0.010	0.019

NOTES

1. - T - = Seating Plane and Datum Surface.
2. Dimensions "A" and "B" are Datum.
3. Dimensions "A" and "B" do not include mold protrusion.
4. Maximum mold protrusion is 0.015" (0.380 mm) per side.
5. Dimensioning and tolerances per ANSI Y14.5M, 1982.
6. Dimensions are exclusive of mold flash and metal burrs.

TAPE & REEL/BULK ORDERING NOMENCLATURE

1. Surface mount product is taped and reeled in accordance with EIA-481.
2. Suffix-T7 = 7 Inch Reel - 1,000 pieces per 16mm tape, *i.e.* ET720-T7.
3. Suffix-T13 = 13 Inch Reel - 2,500 pieces per 16mm tape, *i.e.* ET720-T13.
4. Suffix-LF = Lead-Free, Pure-Tin Plating, *i.e.* ET720-LF-T7.
5. No Suffix = Product Shipped in Tubes of 48 pcs per Tube.

Outline & Dimensions: Rev 1 - 11/01, 06007

MOUNTING PAD

