



JKSEMI
金 开 盛 电 子

LC0502D6

Low CAPACITANCE TVS DIODE ARRAY

APPLICATIONS

- ✧ USB 2.0 High Speed.
- ✧ 10/100/1000 Ethernet Ports.
- ✧ High-Definition Multimedia Interface (HDMI).
- ✧ Digital Visual Interface (DVI).
- ✧ Monitors and Flat Panel Displays.
- ✧ Video Graphics Cards.
- ✧ IEEE 1394 Firewire Ports High Speed.

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

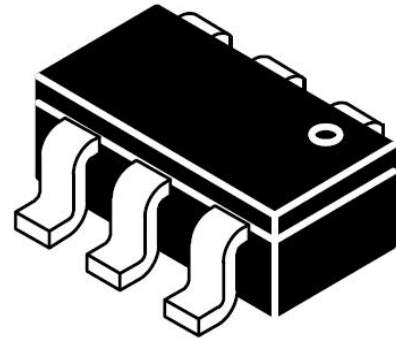
FEATURES

- ✧ 300 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects up to two I/O lines & power line.
- ✧ Low capacitance (1.2pF typ.) for high-speed interfaces.
- ✧ Working voltages : 5V.
- ✧ Ultra-small package requires less than 2.9mm² of PCB area.

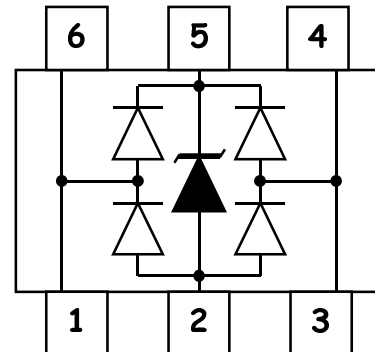
MECHANICAL CHARACTERISTICS

- ✧ SOT-26 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 13 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

SOT-26



PIN CONFIGURATION

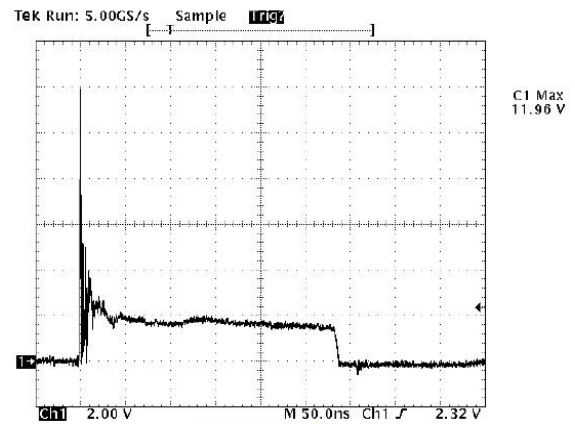
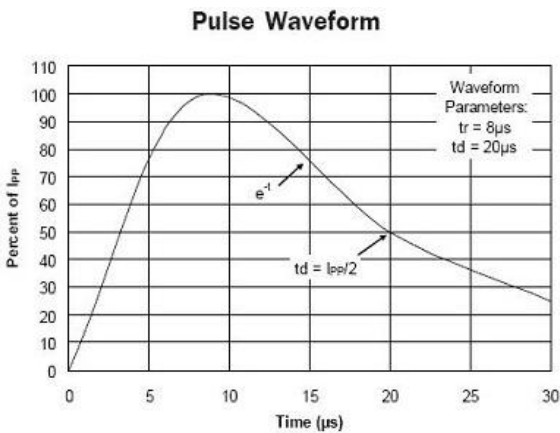
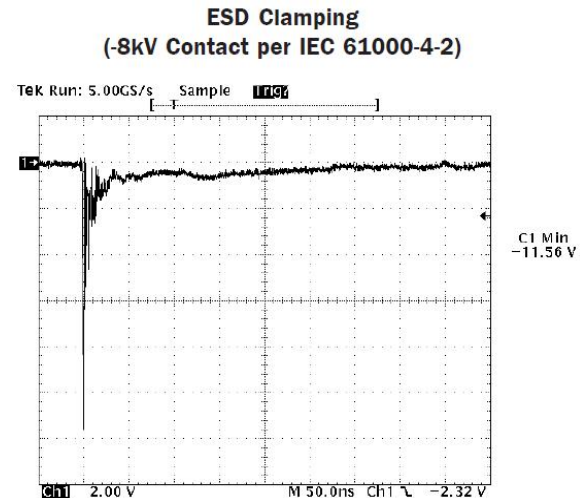
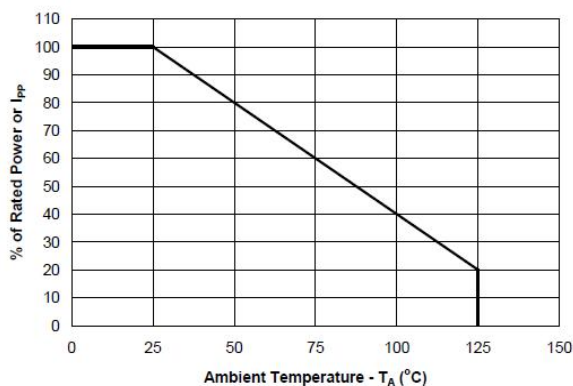


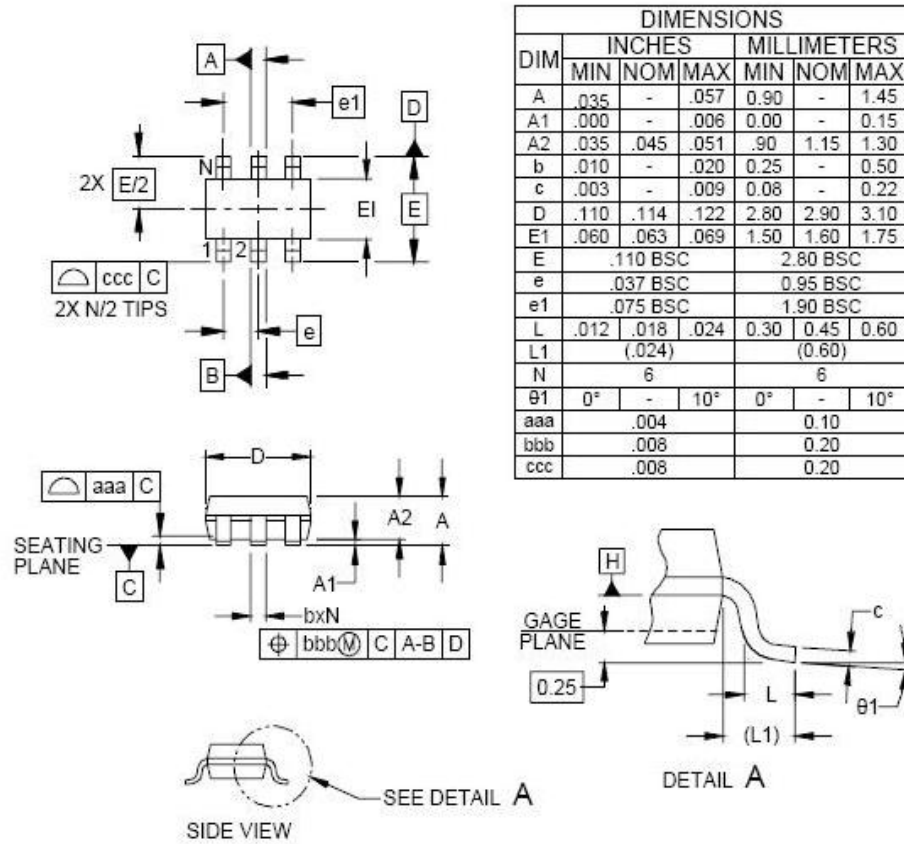
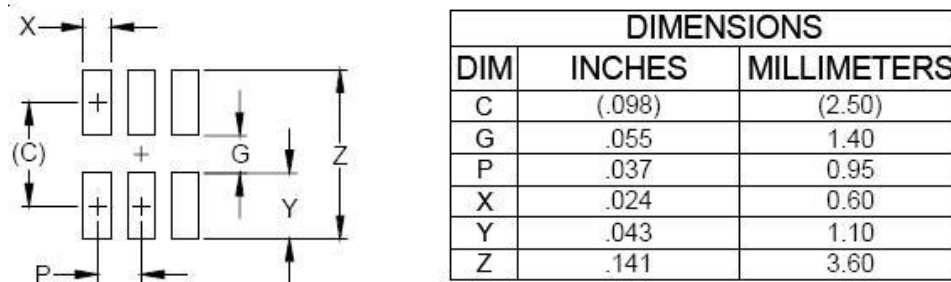
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	300	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)	I _R (μA) (max.)	C _T (pF) (typ.)
LC0502D6	602	5	6	1	13	20	5	1

**ESD Clamping
(8kV Contact per IEC 61000-4-2)**

Power Derating Curve


SOT-26 PACKAGE OUTLINE & DIMENSIONS

*** SOLDERING FOOTPRINT**

 Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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