

## APPLICATIONS

- ✧ Cellular Handsets and Accessories.
- ✧ Cordless Phones.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Notebooks and Handhelds.
- ✧ Portable Instrumentation.
- ✧ Peripherals.
- ✧ MP3 Players.

## IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 5A (8/20 $\mu\text{s}$ ).

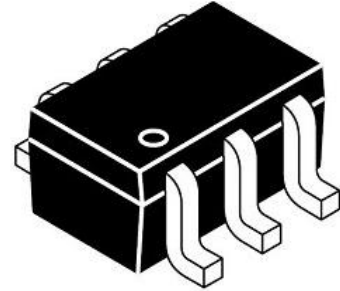
## FEATURES

- ✧ 100 Watts Peak Pulse Power per Line (tp=8/20 $\mu\text{s}$ ).
- ✧ Protects five I/O lines.
- ✧ Low clamping voltage.
- ✧ Working voltages : 5V.
- ✧ Low leakage current.

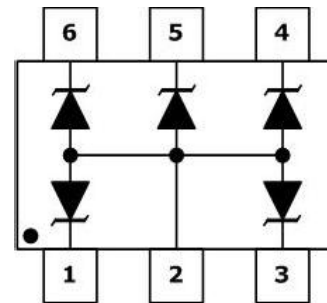
## MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOT-363 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 7 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

**SOT-363**



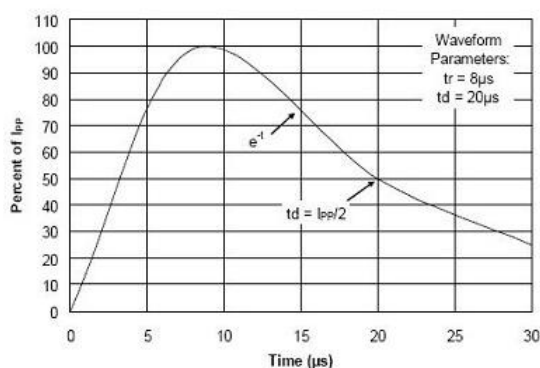
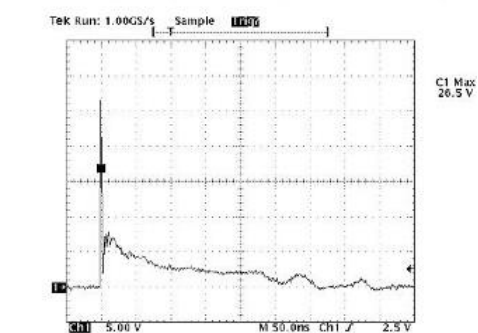
**PIN CONFIGURATION**



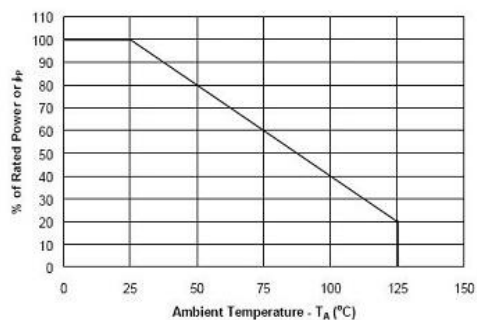
**DEVICE CHARACTERISTICS**

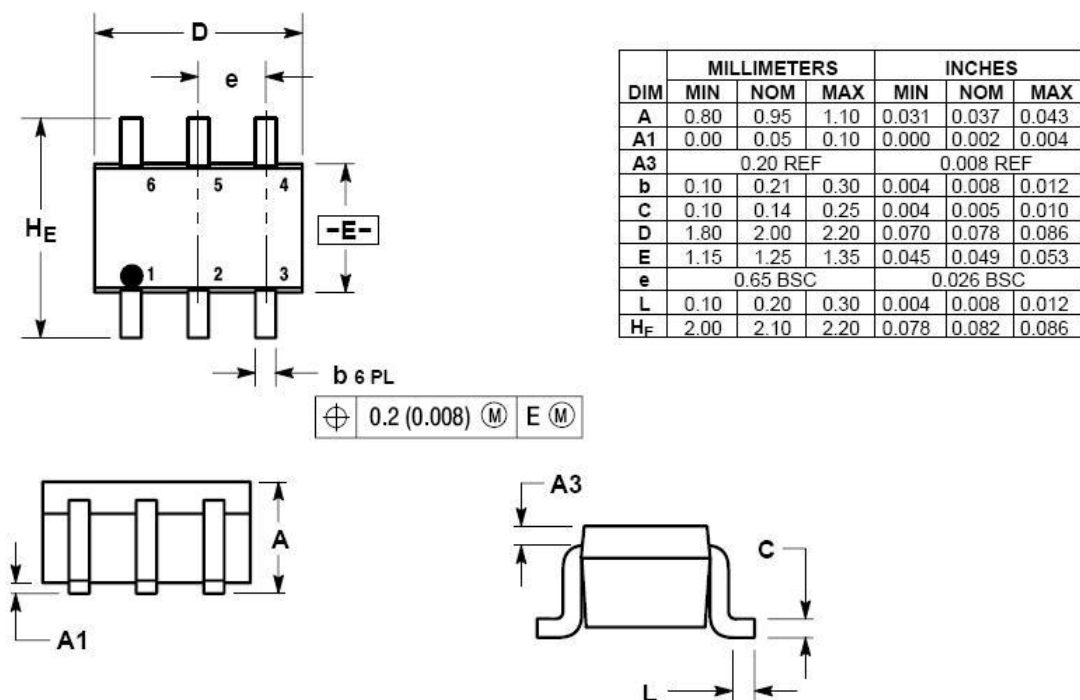
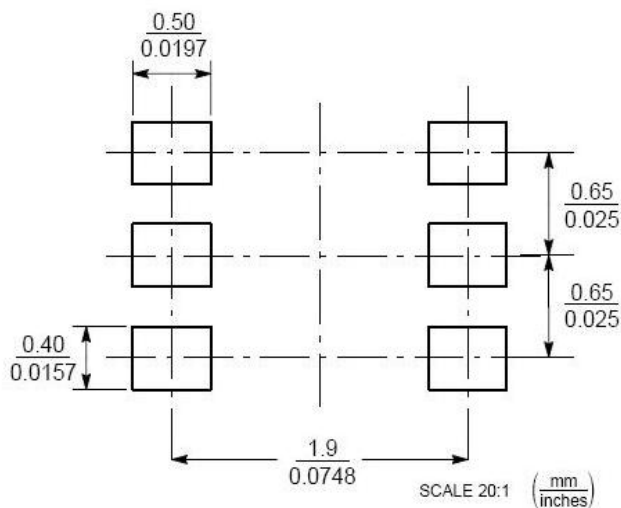
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	100	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A (max.)	V <sub>C</sub> (max.) (@A)	I <sub>R</sub> (μA) (max.)	C <sub>T</sub> (pF) (max.)	
ESDA6V1W6	WF	5	6	1	9.8	12.5	5	1	50

**Pulse Waveform**

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


Note: Data is taken with a 10x attenuator

**Power Derating Curve**


**SOT-363 PACKAGE OUTLINE & DIMENSIONS**

**\* SOLDERING FOOTPRINT**


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

For additional information, please contact your local Sales Representative.

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