

## 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 $\mu\text{s}$ ).

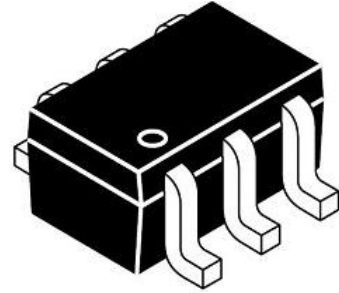
## FEATURES

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

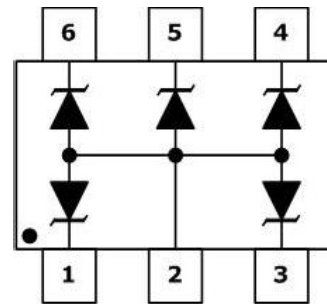
## MECHANICAL CHARACTERISTICS

- ✧ 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



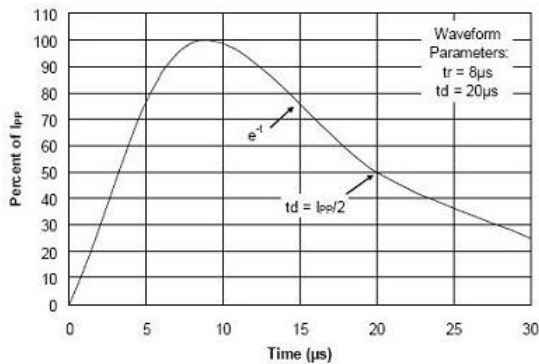
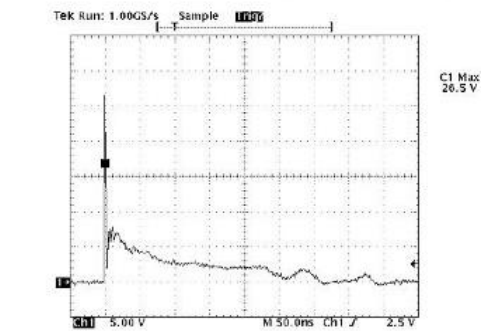
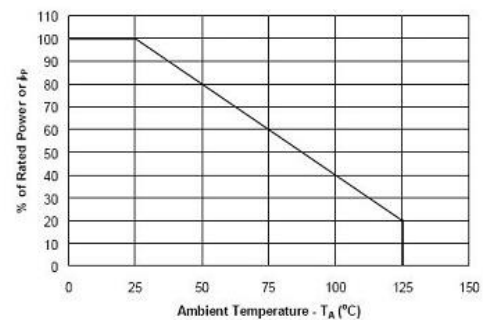
PIN CONFIGURATION

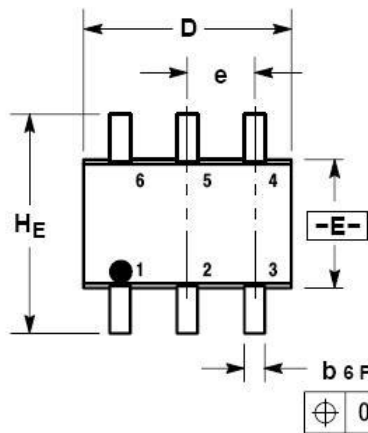


**DEVICE CHARACTERISTICS**

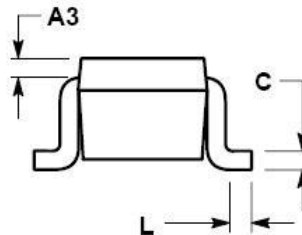
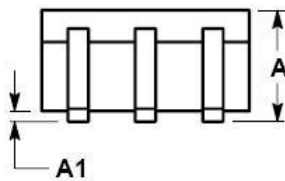
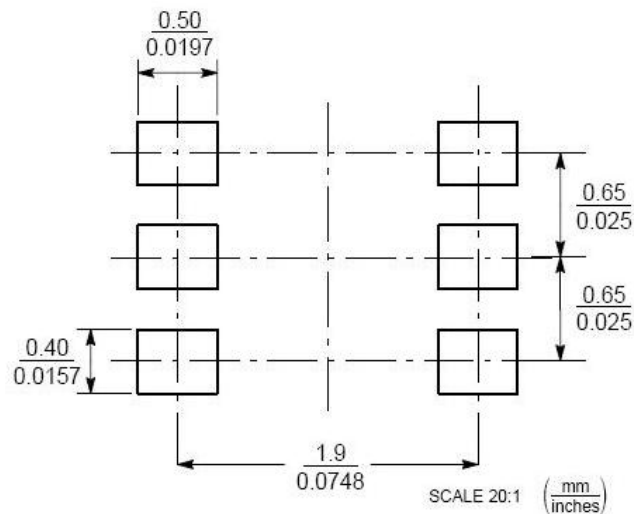
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	100	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-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.)
SDA05CW	WF	5	6	1	9.8	12.5	5	1	50

**Pulse Waveform**

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

**Power Derating Curve**


**SOT-363 PACKAGE OUTLINE & DIMENSIONS**


DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.95	1.10	0.031	0.037	0.043
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3	0.20 REF			0.008 REF		
b	0.10	0.21	0.30	0.004	0.008	0.012
C	0.10	0.14	0.25	0.004	0.005	0.010
D	1.80	2.00	2.20	0.070	0.078	0.086
E	1.15	1.25	1.35	0.045	0.049	0.053
e	0.65 BSC			0.026 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
H <sub>F</sub>	2.00	2.10	2.20	0.078	0.082	0.086


**\* SOLDERING FOOTPRINT**


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

For additional information, please contact your local Sales Representative.

©Copyright 2016, jksemi