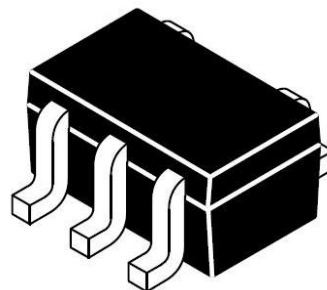


## APPLICATIONS

- ✧ Cell phone Handsets and Accessories.
- ✧ Microprocessor Based Equipment.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Set Top Box.
- ✧ Peripherals.
- ✧ MP3 Players.
- ✧ Cordless Phones.

### SOT-353



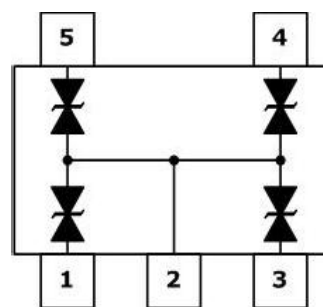
## IEC COMPATIBILITY

- ✧ 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) 3A (8/20 $\mu\text{s}$ ).

## FEATURES

- ✧ 100 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ ).
- ✧ Protects four bidirectional lines.
- ✧ Low clamping voltage.
- ✧ RoHS Compliant.

### PIN CONFIGURATION



## MECHANICAL CHARACTERISTICS

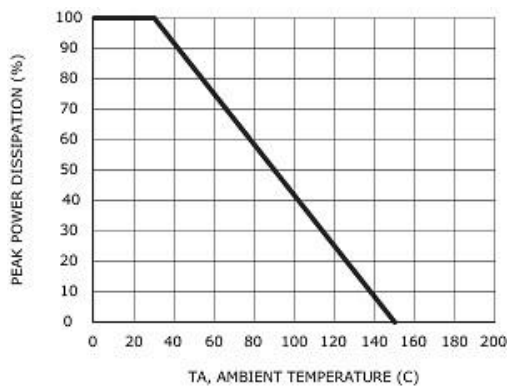
- ✧ JEDEC SOT-353 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 8.0 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

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

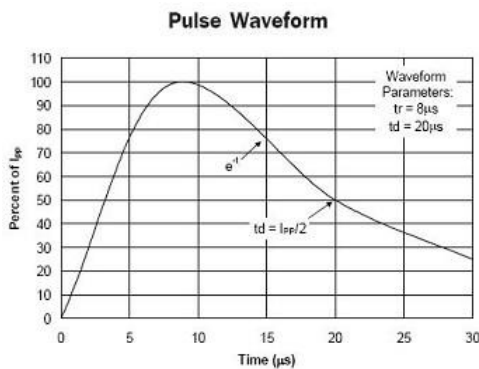
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	100	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ 150	°C

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

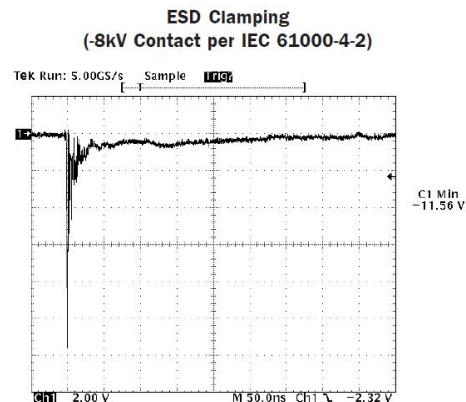
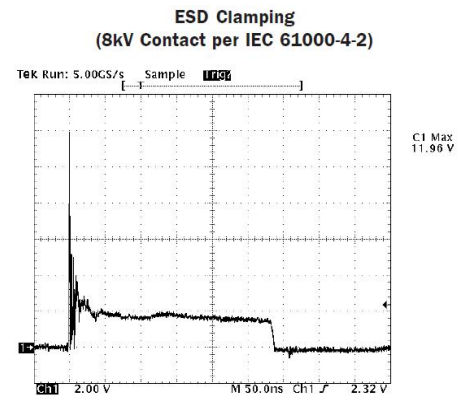
PART NUMBER	DEVICE MARKING	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A (max.)	V <sub>C</sub> (max.) (@A)	I <sub>R</sub> (μA) (max.)	C <sub>T</sub> (pF) (max.)
ESDA3.3CW-4	W3	3.3	4.5	1	7.5	10	2.5	10
ESDA5.0CW-4	W5	5	6.5	1	9.8	15	2.5	10

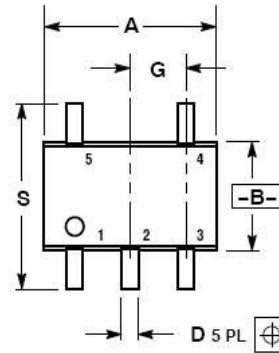


Power Derating Curve

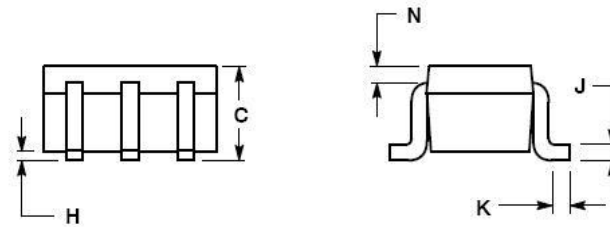
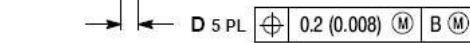
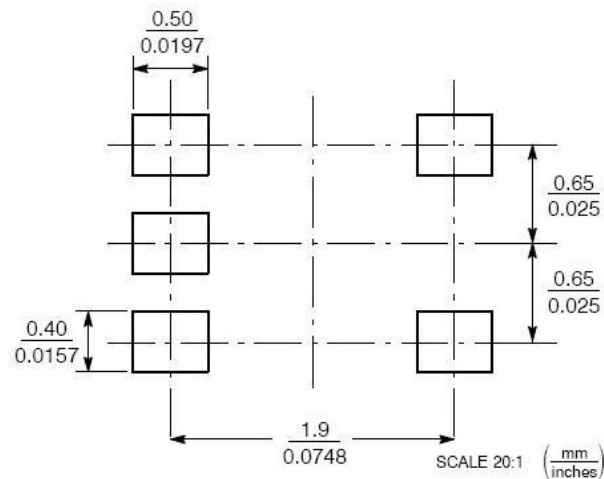


Pulse Waveform



**SOT-353 PACKAGE OUTLINE & DIMENSIONS**


DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20


**\* SOLDERING FOOTPRINT**

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

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