

APPLICATIONS

- ✧ Cellular Handsets and Accessories.
- ✧ Portable Electronics.
- ✧ Industrial Controls.
- ✧ Set-Top Box.
- ✧ Instrumentation.
- ✧ Servers, Notebook, and Desktop PC.

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) 12A (8/20 μs).

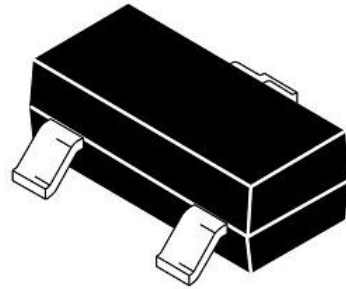
FEATURES

- ✧ 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects one bidirectional line or two unidirectional lines.
- ✧ Low clamping voltage.
- ✧ RoHS Compliant.

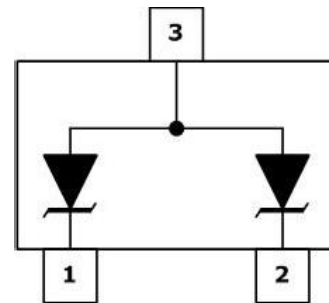
MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOT-23 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.

SOT-23



PIN CONFIGURATION

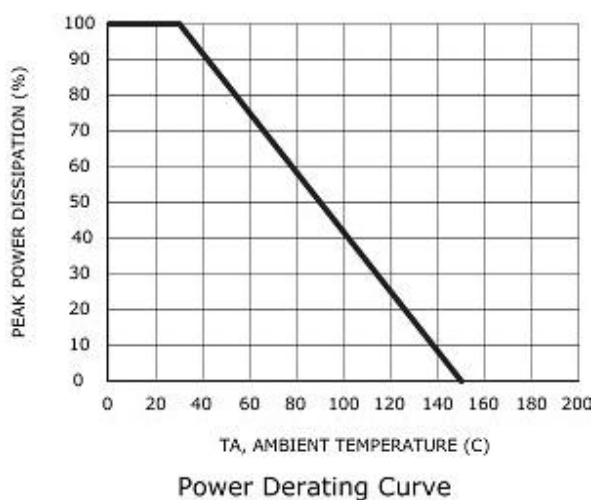
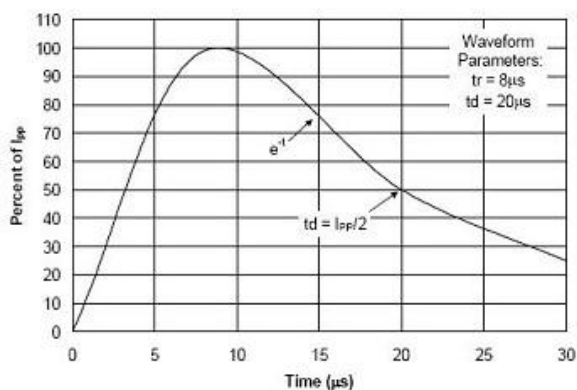


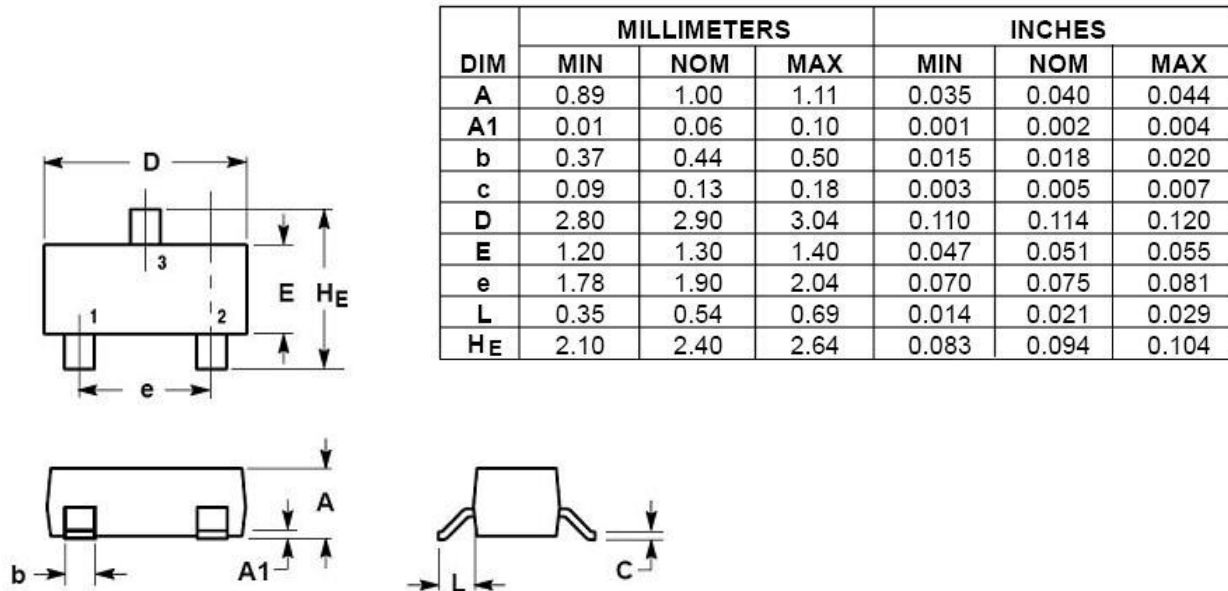
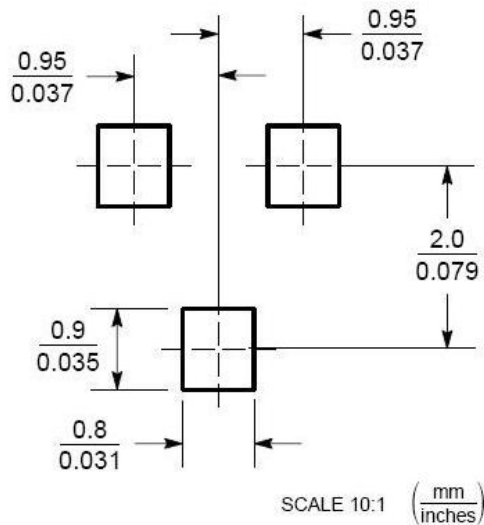
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p=8/20\mu s$ 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_B	I_T	V_C	V_C		I_R	C_T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (typ.)
SM03	M03	3.3	4.0	1	6.5	10.9	13	100	400
SM05	05C	5	6.0	1	9.8	13.5	10	10	300
SM08	M08	8	8.5	1	13.4	16.9	8	5	250
SM12	M12	12	13.3	1	19	25.9	5	1	150
SM15	M15	15	16.7	1	24	30	4	1	100
SM24	M24	24	26.7	1	43	49	3	1	88
SM36	M36	36	40.0	1	51	76.8	2	1	60

Pulse Waveform


SOT-23 PACKAGE OUTLINE & DIMENSIONS

*** SOLDERING FOOTPRINT**


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

For additional information, please contact your local Sales Representative.

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