

APPLICATIONS

- ✧ Microprocessor based equipment.
- ✧ Notebooks, Desktops, and Servers.
- ✧ Industrial Controls.
- ✧ Instrumentation.
- ✧ Peripherals.
- ✧ Serial and Parallel Ports.

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 μs).

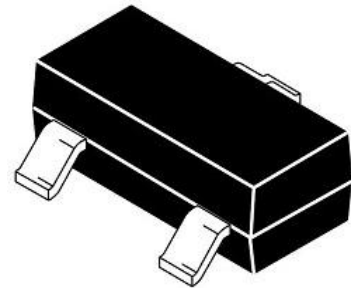
FEATURES

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

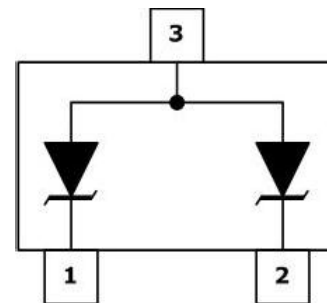
MECHANICAL CHARACTERISTICS

- ✧ 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

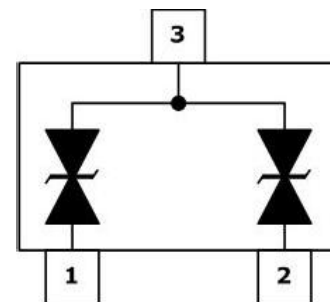


PIN CONFIGURATION



SDA0502

PIN CONFIGURATION



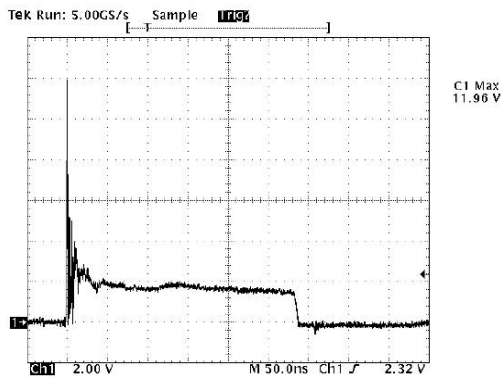
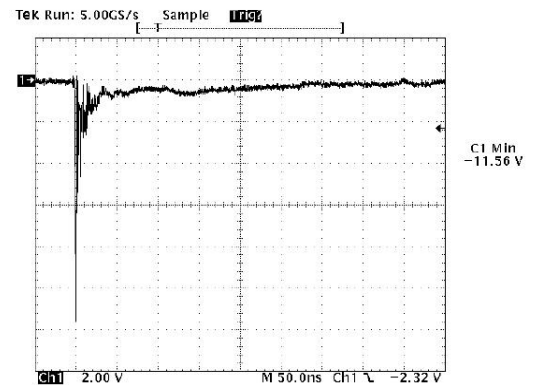
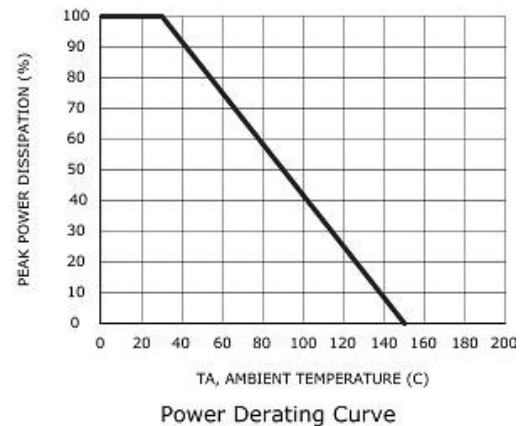
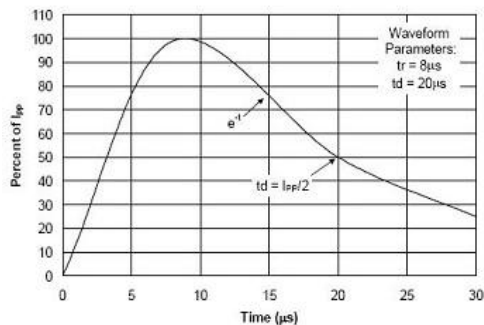
SDA0502C

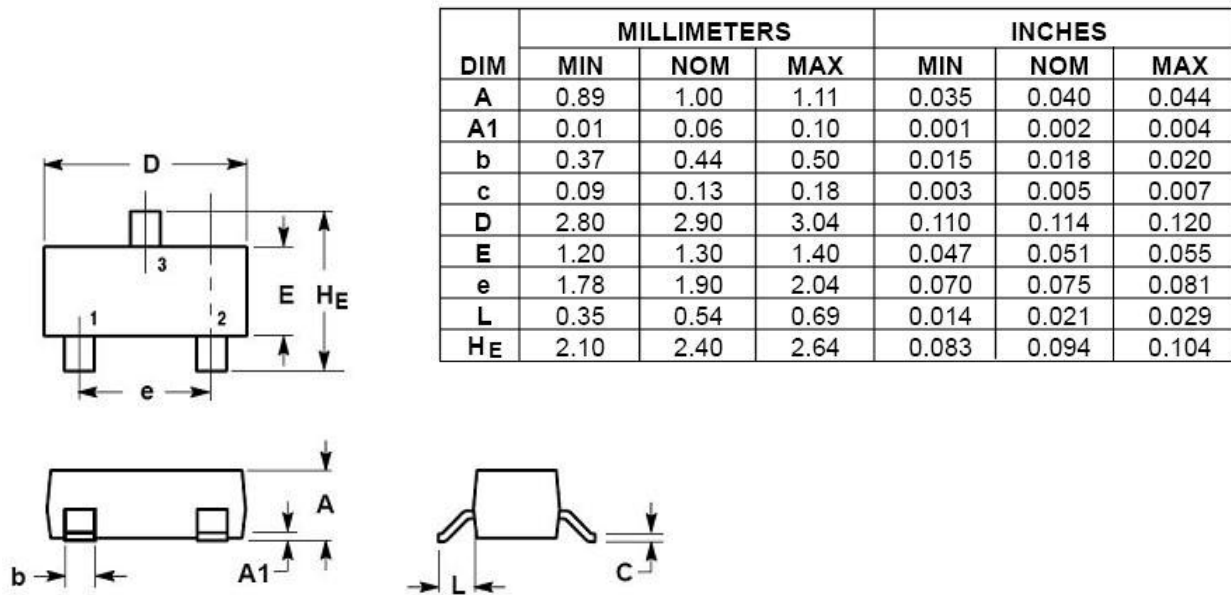
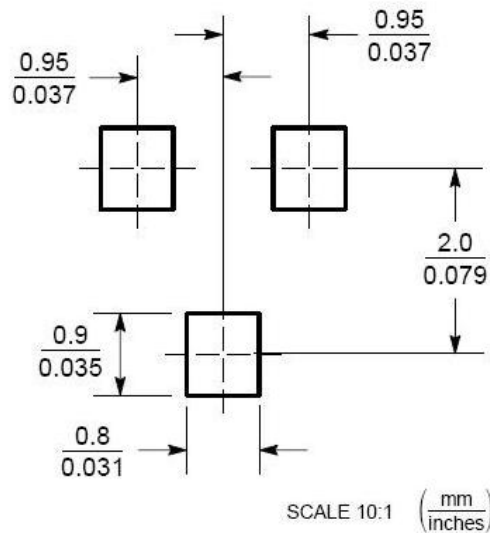
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	100	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.)
SDA0502	Y 05C	5	6	1	9.8	20	4	5	30
SDA0502C	EB5	5	6	1	9.8	20	4	5	30

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

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

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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