

APPLICATIONS

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

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

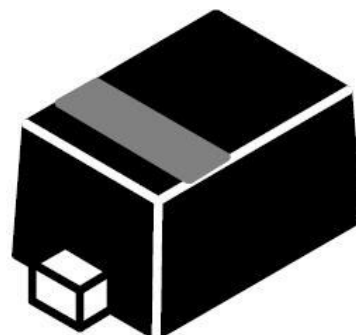
FEATURES

- ✧ 200 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects one I/O line.
- ✧ Low clamping voltage.
- ✧ Working voltages : 3.3V, 5V, 8V, 12V, 15V and 24V.
- ✧ Low leakage current.

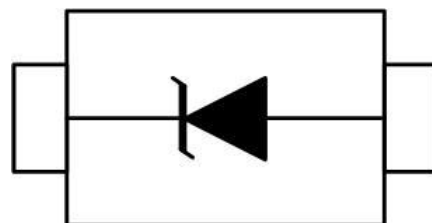
MECHANICAL CHARACTERISTICS

- ✧ SOD-523 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 2.0 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

SOD-523



PIN CONFIGURATION

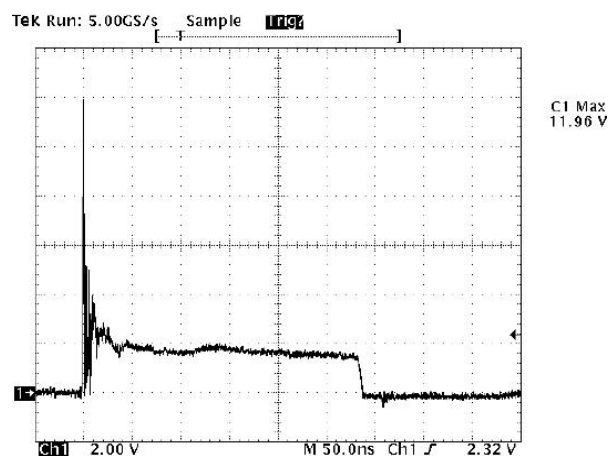


DEVICE CHARACTERISTICS

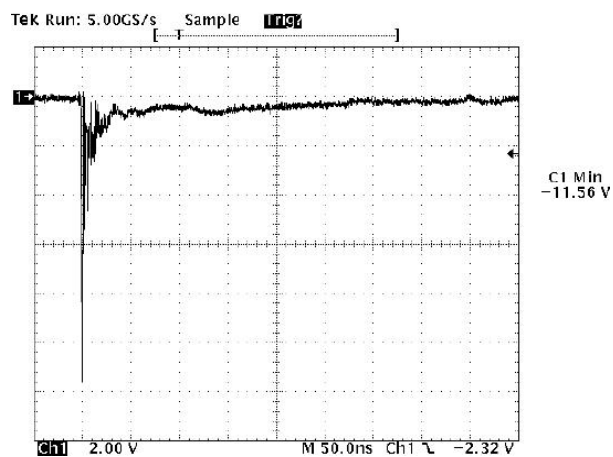
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{pp}	200	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

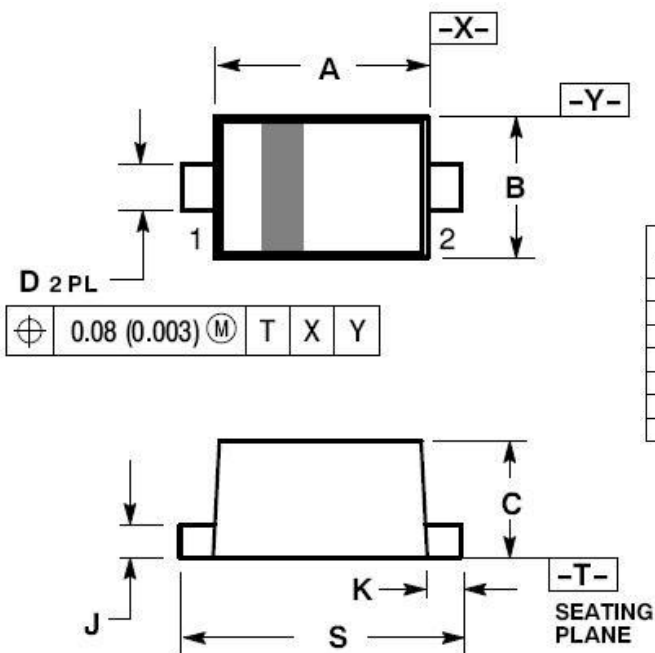
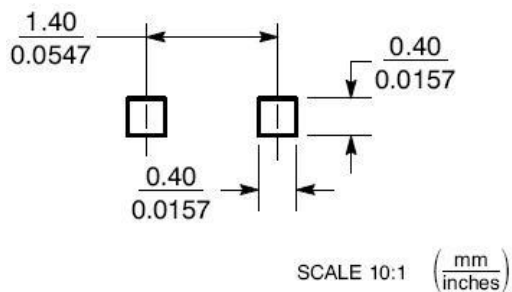
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)		I _R (μA) (max.)	C _T (pF) (typ.)
SDA3.3T1	3Z	3.3	4	1	6.5	14.1	11.2	200	200
SDA05T1	ZF	5	6	1	9	18.6	9.4	5	110
SDA08T1	ZE	8	8.5	1	13	19.5	8.8	5	70
SDA12T1	ZM	12	13.3	1	15	17	5	1	60
SDA15T1	KP	15	16.6	1	20	22	5	1	50
SDA24T1	KR	24	26.7	1	30	32	5	1	25

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



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



SOD-523 PACKAGE OUTLINE & DIMENSIONS

*** SOLDERING FOOTPRINT**


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

For additional information, please contact your local Sales Representative.

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