

### APPLICATIONS

- ✧ RS-232, RS-422 & RS-423 Data Lines.
- ✧ Audio/Video Inputs.
- ✧ Wireless Network Systems.
- ✧ Digit Video Interface (DVI).
- ✧ Medical Sensors.
- ✧ Notebook Computers.

### IEC COMPATIBILITY

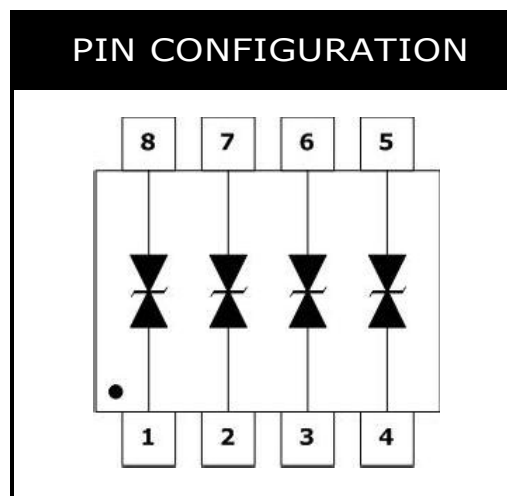
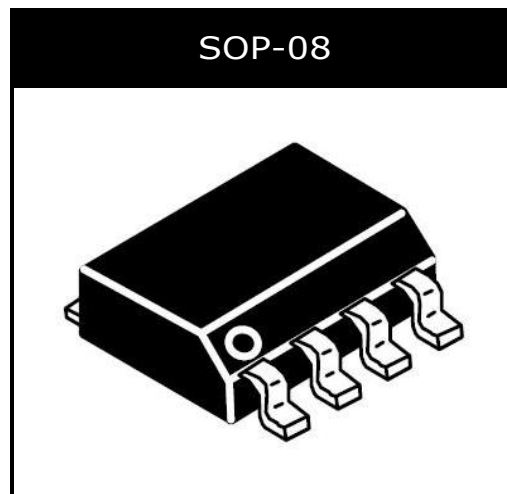
- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50 $\mu\text{s}$ ).
- ✧ IEC61000-4-5 (Lightning) 12A (8/20 $\mu\text{s}$ ).

### FEATURES

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

### MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOP-08 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 70 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 13 inch.
- ✧ Lead Finish : Lead Free.

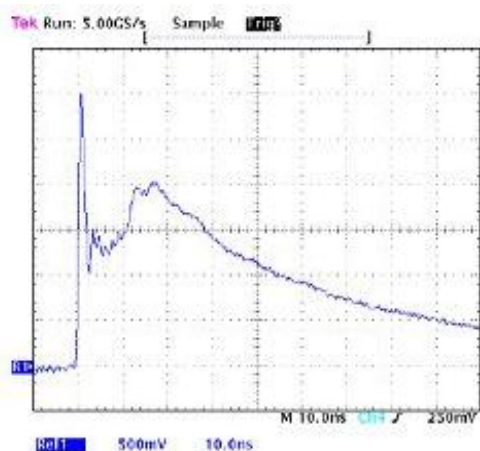
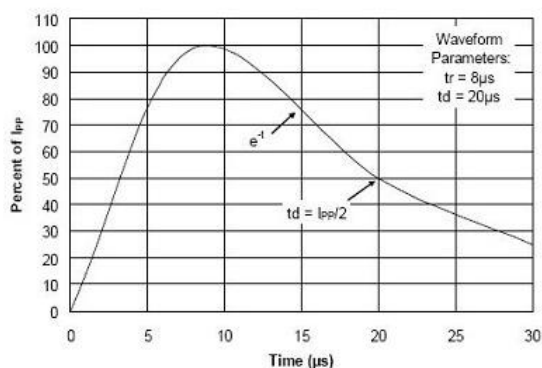
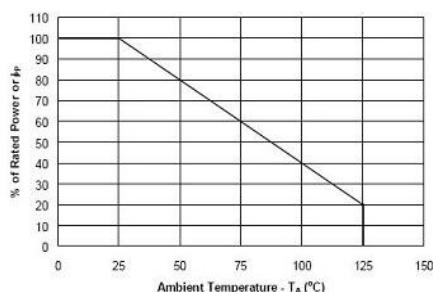


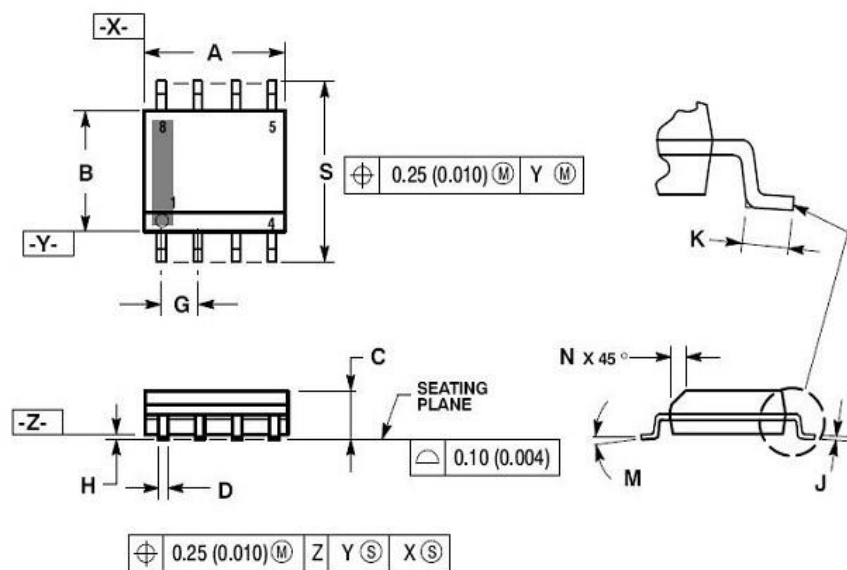
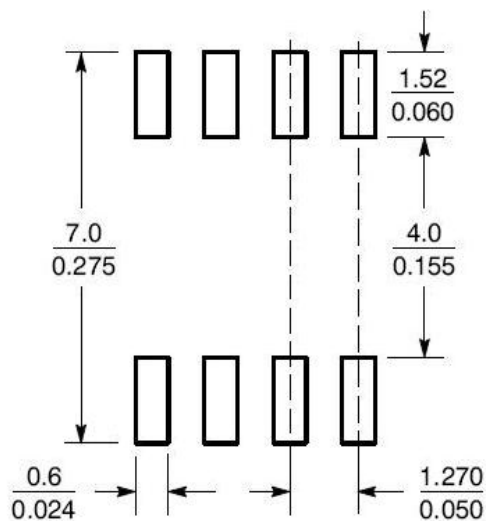
**DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	500	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 <sub>B</sub>	I <sub>T</sub>	V <sub>C</sub>	V <sub>C</sub>		I <sub>R</sub>	C <sub>T</sub>
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (max.)
SMDA33C	SMDA 33C	3.3	4.0	1	6.5	10.9	5	75	450
SMDA05C	SMDA 05C	5.0	6.0	1	9.8	13.5	5	5	300
SMDA12C	SMDA 12C	12.0	13.3	1	19.0	25.9	5	1	100
SMDA15C	SMDA 15C	15.0	16.7	1	24.0	30.0	5	1	80
SMDA24C	SMDA 24C	24.0	26.7	1	43.0	49.0	5	1	50


**Pulse Waveform**

**Power Derating Curve**


**SOP-08 PACKAGE OUTLINE & DIMENSIONS**

**\* SOLDERING FOOTPRINT**

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

For additional information, please contact your local Sales Representative.

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