

## APPLICATIONS

- ✧ USB Power and Data Line Protection.
- ✧ T1/E1 secondary IC Side Protection.
- ✧ T3/E3 secondary IC Side Protection.
- ✧ HDSL, SDSL secondary IC Side Protection.
- ✧ Video Line Protection.
- ✧ Microcontroller Input Protection.
- ✧ Base stations.
- ✧ I2C Bus Protection.

## 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) 24A (8/20 $\mu\text{s}$ ).

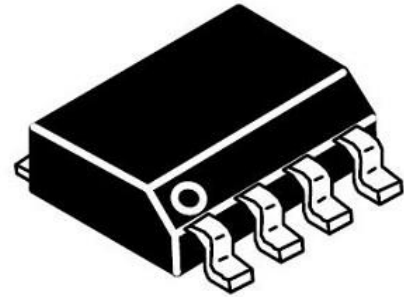
## FEATURES

- ✧ 500 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ ).
- ✧ Protects Four High Speed I/O lines.
- ✧ Low capacitance (5pF) for high-speed interfaces.
- ✧ Low clamping and operating voltage.
- ✧ RoHS Compliant.

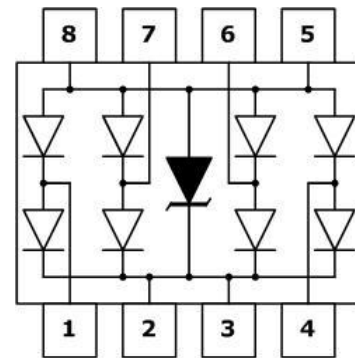
## MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOP-08 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 70 Milligrams (Approximate).
- ✧ Quantity Per Reel : 2,500pcs.
- ✧ Reel Size : 13 inch.

**SOP-08**



**PIN CONFIGURATION**

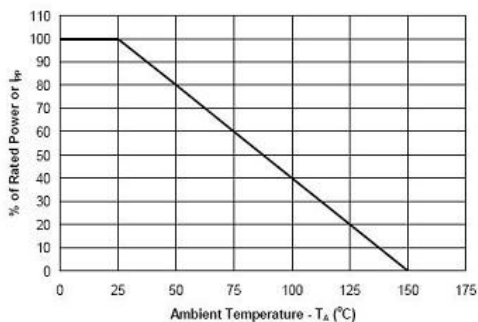
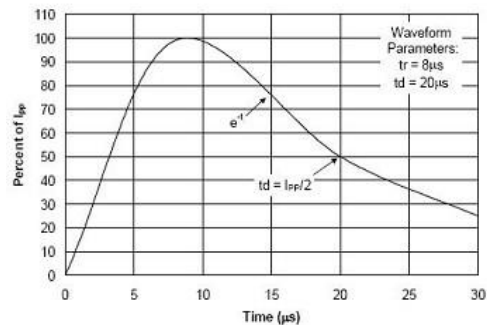
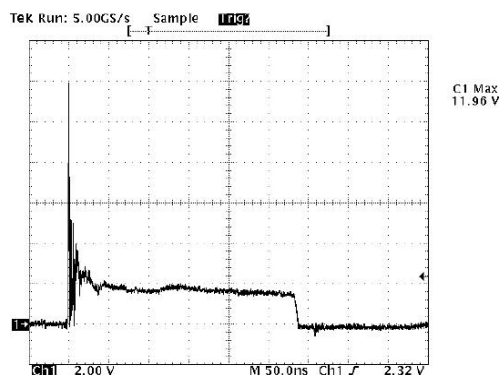
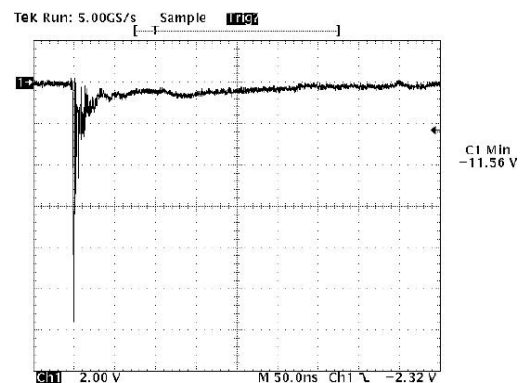


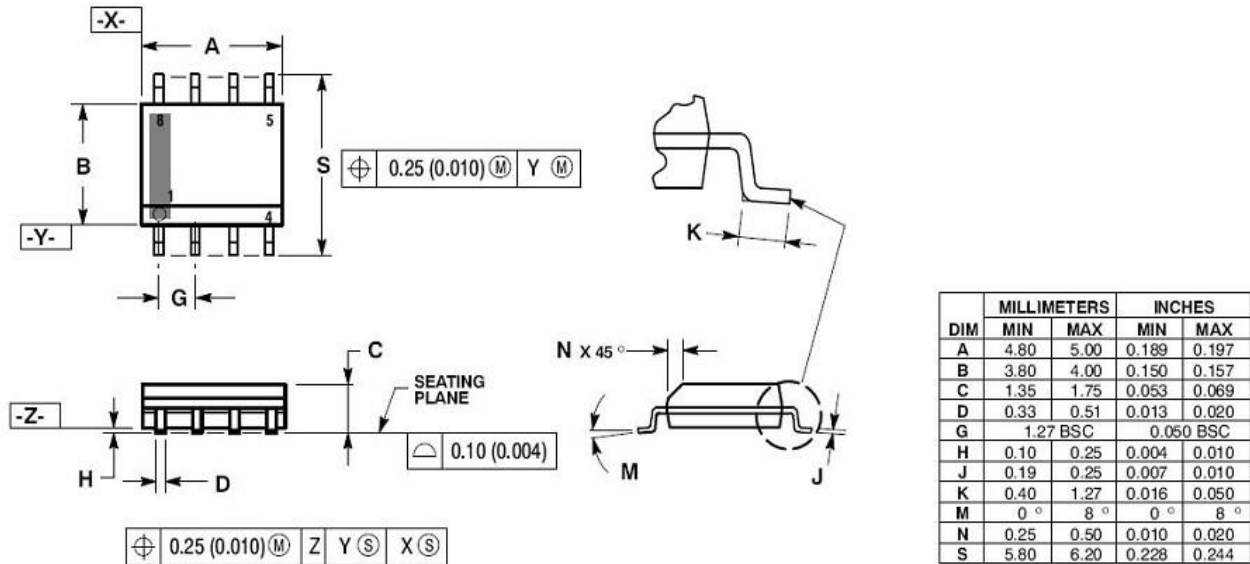
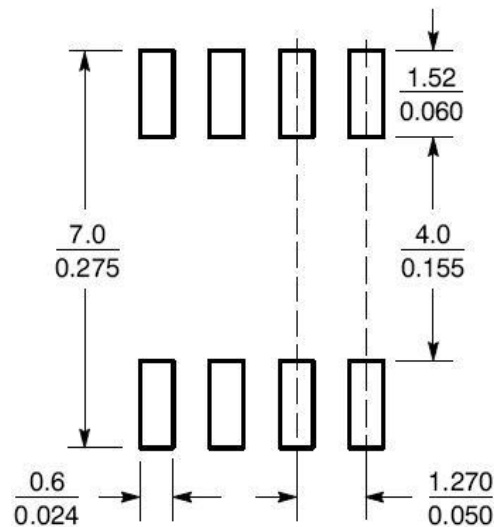
**DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

| 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><br>(V)<br>(max.) | V <sub>B</sub><br>(V)<br>(min.) | I <sub>T</sub><br>(mA) | V <sub>C</sub><br>@1A<br>(max.) | V <sub>C</sub><br>(max.)    (@A) |    | I <sub>R</sub><br>(μA)<br>(max.) | C <sub>T</sub><br>(pF)<br>(max.) |
|-------------|----------------|-----------------------------------|---------------------------------|------------------------|---------------------------------|----------------------------------|----|----------------------------------|----------------------------------|
| SRDA3.3-4   | SRDA<br>3.3-4  | 3.3                               | 4                               | 1                      | 6.5                             | 15.5                             | 27 | 40                               | 5                                |
| SRDA05-4    | SRDA<br>05-4   | 5                                 | 6                               | 1                      | 9.8                             | 19                               | 24 | 5                                | 5                                |
| SRDA12-4    | SRDA<br>12-4   | 12                                | 13.3                            | 1                      | 19                              | 29                               | 18 | 1                                | 5                                |
| SRDA15-4    | SRDA<br>15-4   | 15                                | 16.7                            | 1                      | 24                              | 32                               | 15 | 1                                | 5                                |

**Power Derating Curve**

**Pulse Waveform**

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

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


**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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