

APPLICATIONS

- ✧ Communication Lines.
- ✧ LAN/WAN Equipment.
- ✧ T3/E3 secondary IC Side Protection.
- ✧ HDSL, SDSL secondary IC Side Protection.
- ✧ Servers.
- ✧ Microcontroller Input Protection.
- ✧ Base Stations.
- ✧ Instrumentation.

IEC COMPATIBILITY

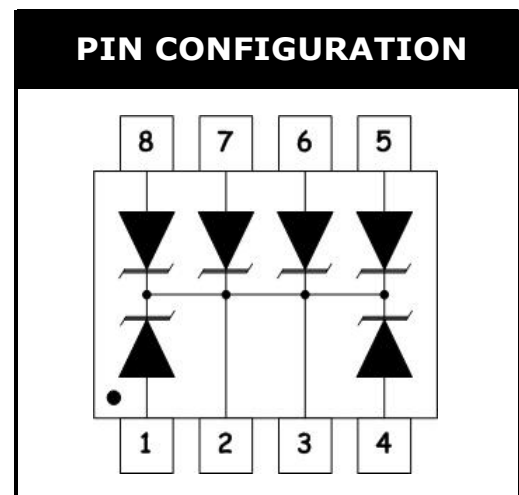
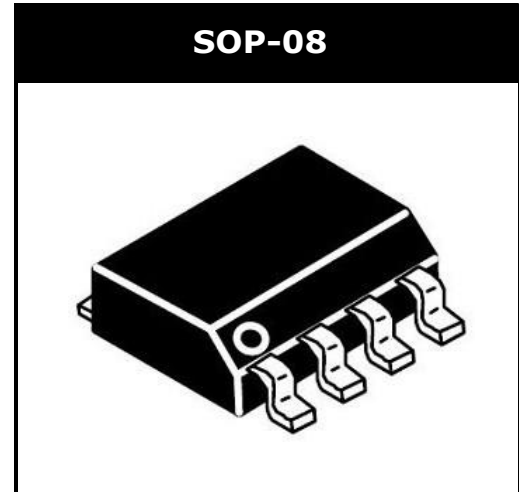
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

FEATURES

- ✧ 300 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects Four Six I/O Lines.
- ✧ Low Operating Voltage.
- ✧ Low Clamping Voltage.
- ✧ RoHS Compliant.

MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOP-08 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 70 Milligrams (Approximate).
- ✧ Quantity Per Reel : 500pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

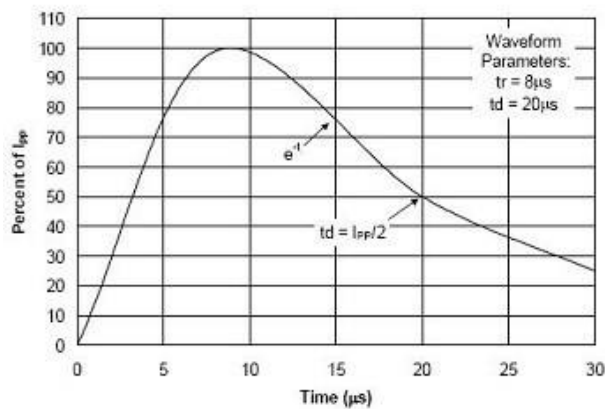
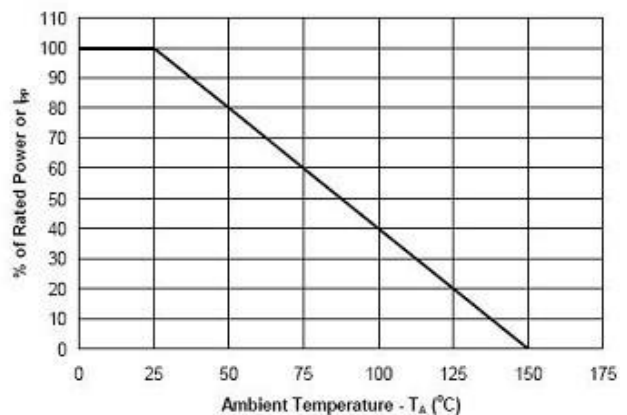


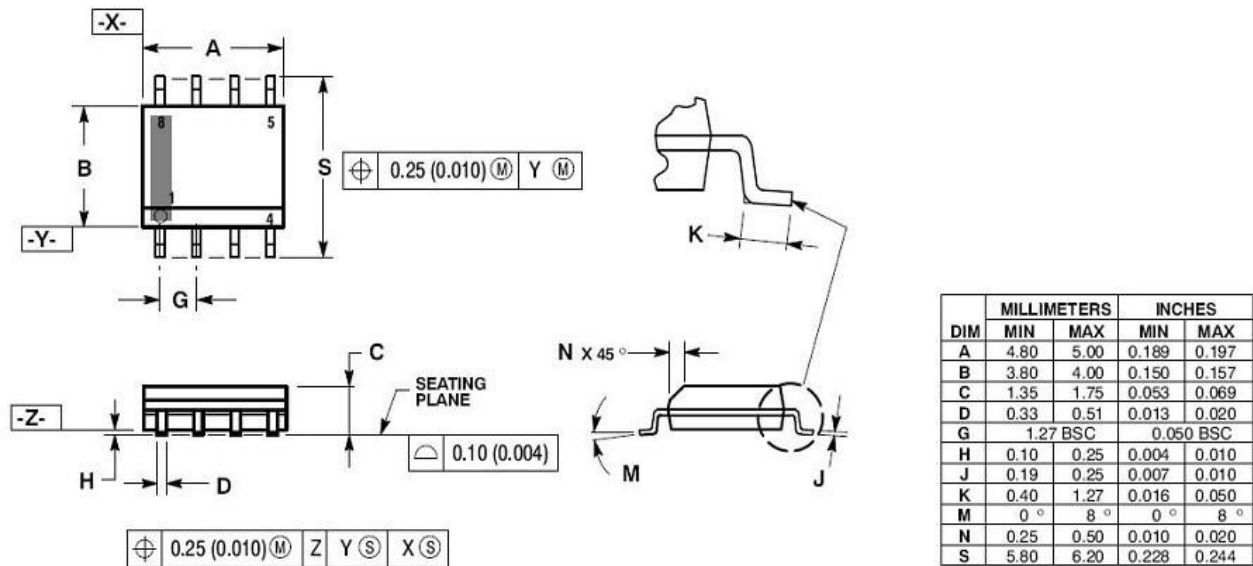
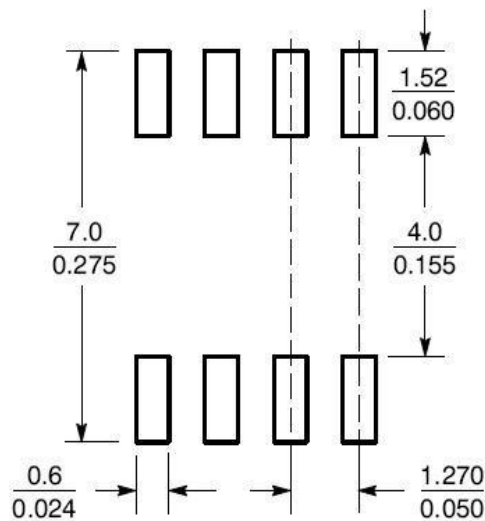
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

| PARAMETER | SYMBOL | VALUE | UNITS |
|---------------------------------------|------------------|---------------|-------|
| Peak Pulse Power (tp=8/20μs waveform) | P _{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) (max.) | V _B (V) (min.) | I _T (mA) | V _C @1A (max.) | V _C (max.) (@A) | | I _R (μA) (max.) | C _T (pF) (max.) |
|-------------|----------------|-----------------------------------|---------------------------------|------------------------|---------------------------------|----------------------------------|----|----------------------------------|----------------------------------|
| SMDA05-6 | SMDA 05-6 | 5 | 6 | 1 | 9.8 | 20 | 25 | 5 | 350 |
| SMDA12-6 | SMDA 12-6 | 12 | 13.4 | 1 | 19 | 30 | 21 | 1 | 120 |
| SMDA15-6 | SMDA 15-6 | 15 | 16.7 | 1 | 24 | 32 | 17 | 1 | 75 |
| SMDA24-6 | SMDA 24-6 | 24 | 26.7 | 1 | 43 | 48 | 12 | 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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