

### APPLICATIONS

- ✧ T1/E1 Line Cards.
- ✧ T3/E3 and DS3 Interfaces.
- ✧ STS-1 Interfaces.
- ✧ ISDN S/T-Interfaces.
- ✧ ISDN U-Interfaces.
- ✧ 10/100 Ethernet.

### IEC COMPATIBILITY

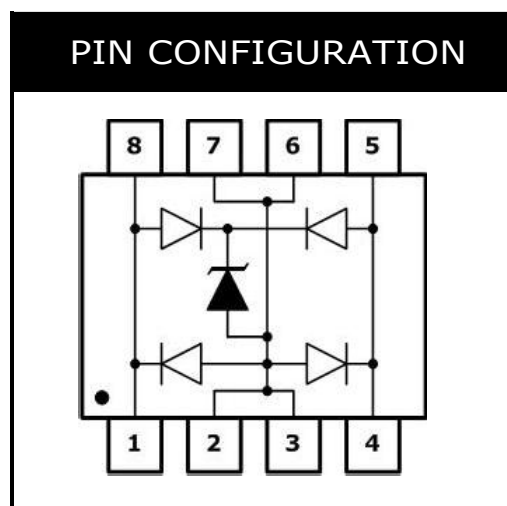
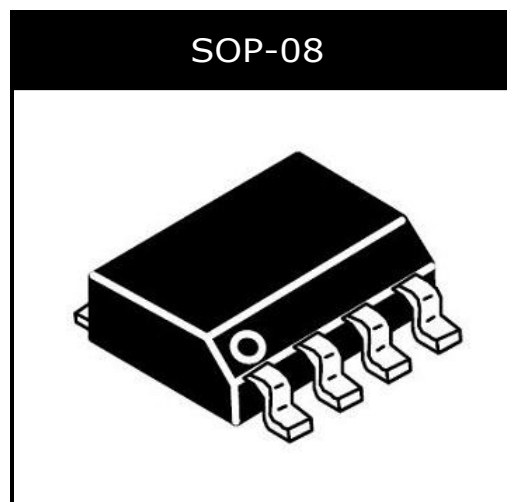
- ✧ Bellcore 1089 (Intra-Building) 100A (2/10 $\mu$ s).
- ✧ ITU K.20 IPP=40A (5/310 $\mu$ s).
- ✧ IEC61000-4-2 (ESD)  $\pm$ 15kV (air),  $\pm$ 8kV (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 100A (8/20 $\mu$ s).

### FEATURES

- ✧ 2000 Watts Peak Pulse Power per Line (tp=8/20 $\mu$ s).
- ✧ Protects two lines in common and differential mode.
- ✧ Low capacitance 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 : 500pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

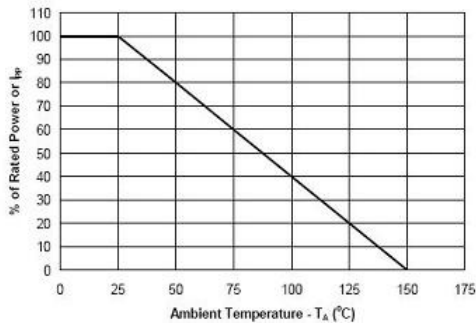
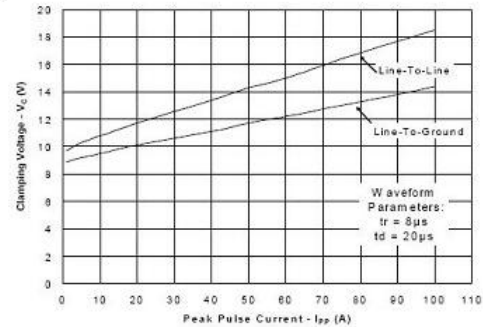
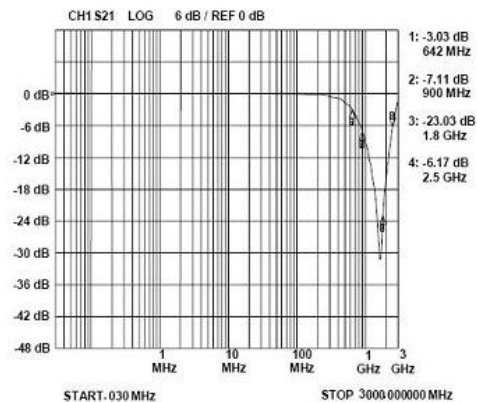
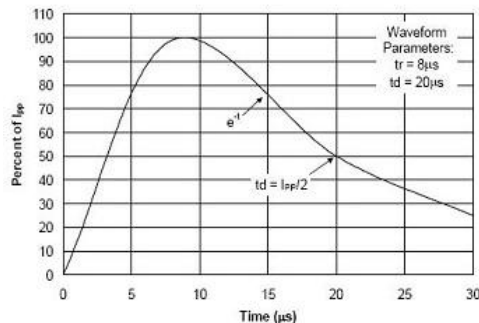


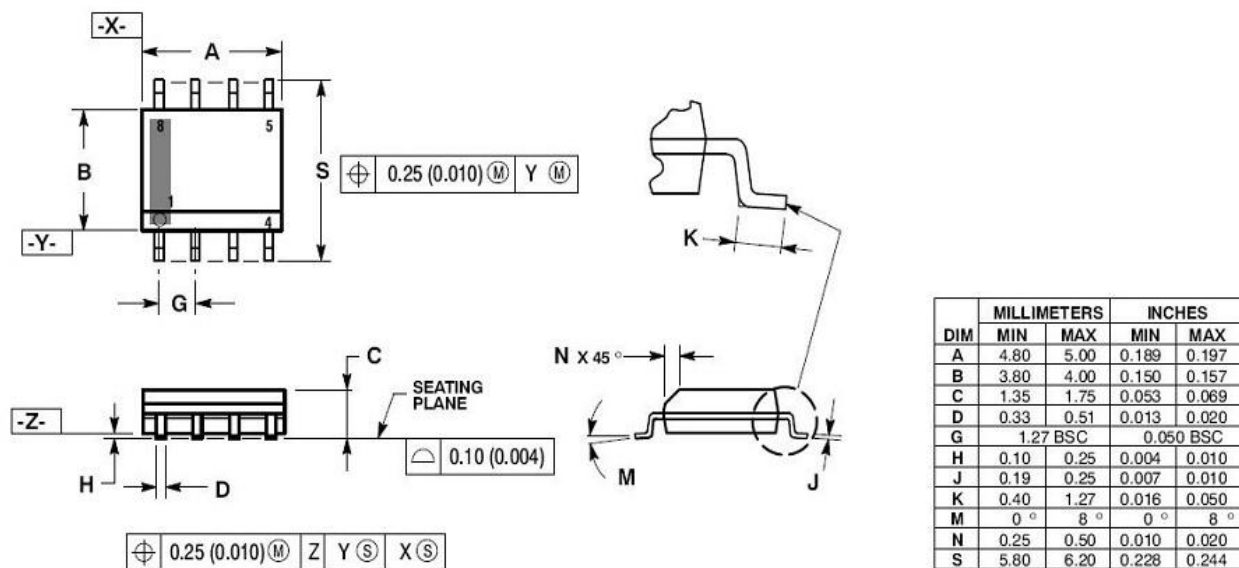
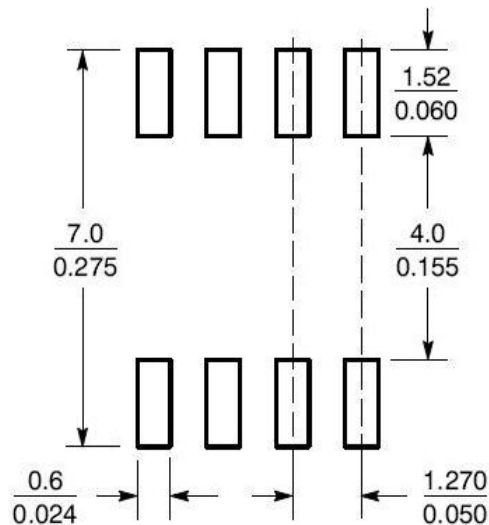
**DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	2000	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) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @50A (max.)	V <sub>C</sub> (max.) (@A)		I <sub>R</sub> (μA) (max.)	C <sub>T</sub> (pF) (max.)
LC03-6	LC03-6	6	6.8	1	15	20	100	20	25

**Power Derating Curve**

**Clamping Voltage vs. Peak Pulse Current**

**Insertion Loss S21 - I/O to Gnd**

**Pulse Waveform**


**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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