

## APPLICATIONS

- ✧ Microprocessor Based Equipment.
- ✧ RS-232 and RS-422 Data Lines.
- ✧ LAN/WAN Equipment.
- ✧ Notebooks, Desktops and Servers.
- ✧ Instrumentation.
- ✧ Set Top Box.
- ✧ Serial and Parallel Ports.
- ✧ Peripherals.

## IEC COMPATIBILITY

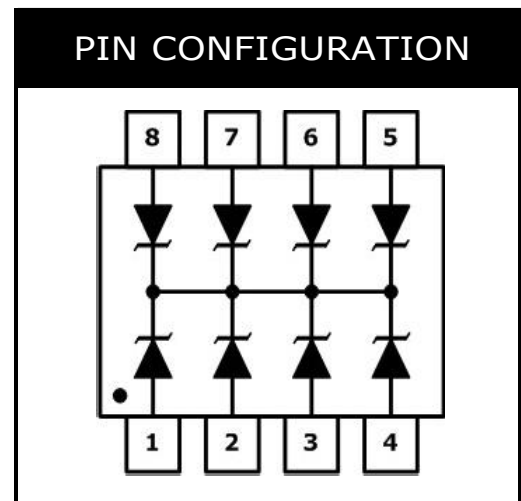
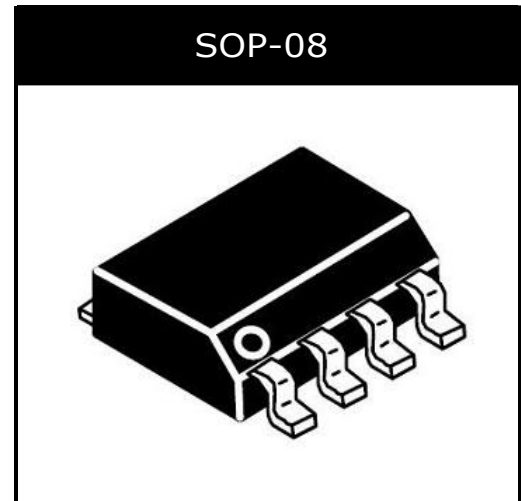
- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 12A (8/20 $\mu\text{s}$ ).

## FEATURES

- ✧ 300 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ ).
- ✧ Protects Seven Data Lines.
- ✧ Working Voltage : 5V, 12V, 15V and 24V.
- ✧ Monolithic Design.
- ✧ 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.

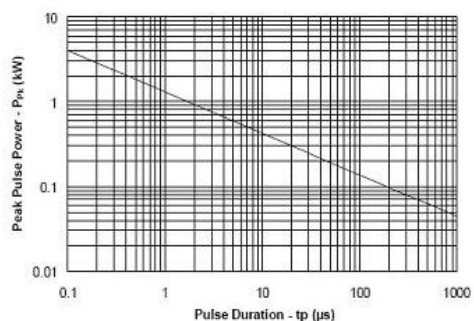
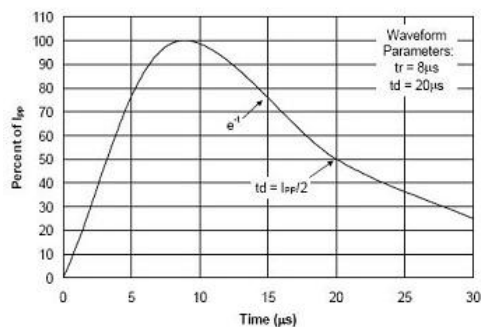
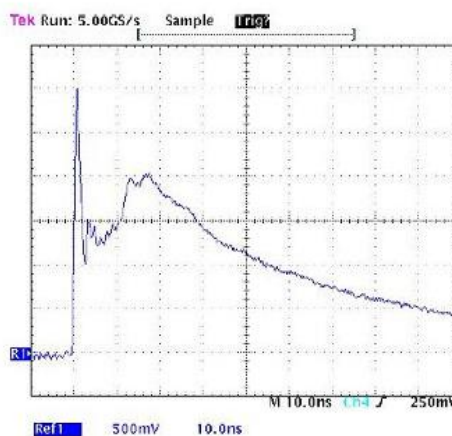


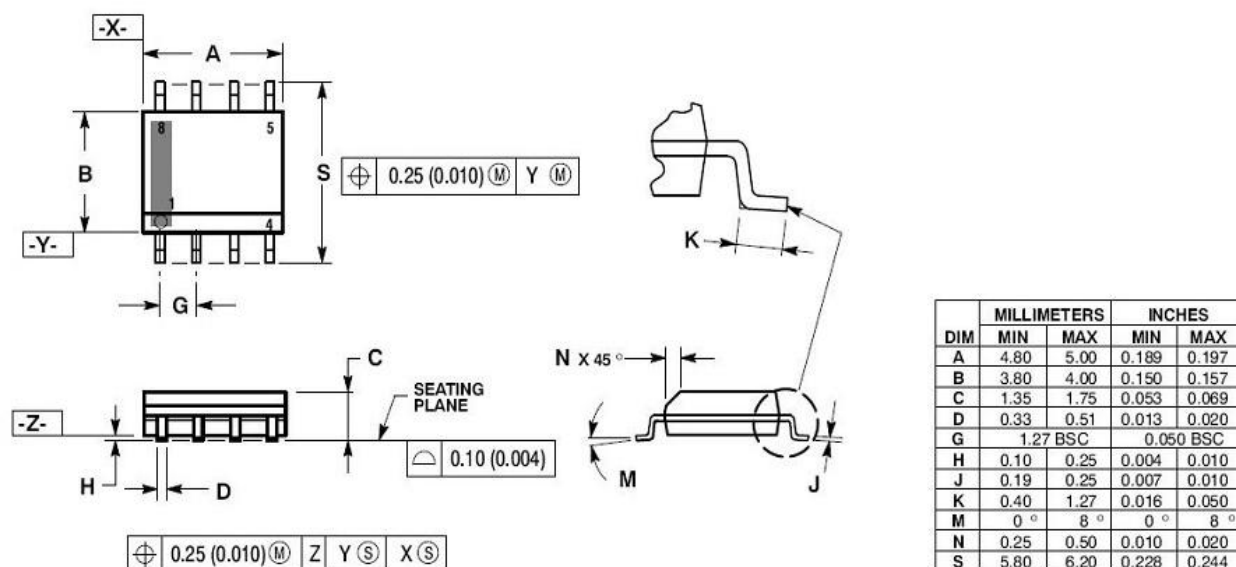
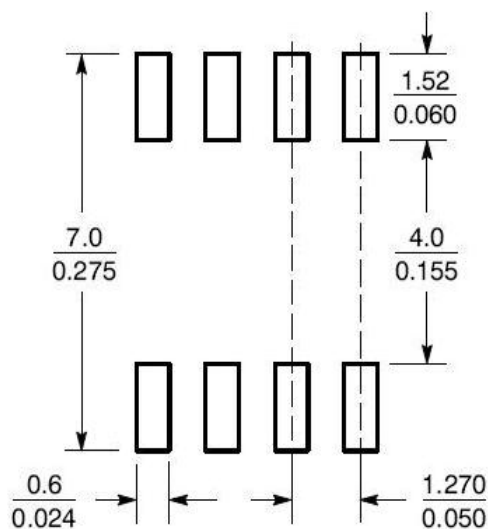
**DEVICE CHARACTERISTICS**
**MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P <sub>PP</sub>	300	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.)
SMDA05C-7	SMDA 05C-7	5	6	1	9.8	19	30	20	350
SMDA12C-7	SMDA 12C-7	12	13.3	1	19	29.2	20	1	120
SMDA15C-7	SMDA 15C-7	15	16.7	1	24	31.1	18	1	75
SMDA24C-7	SMDA 24C-7	24	26.7	1	43	45	13	1	50

**Non-Repetitive Peak Pulse Power vs. Pulse Time**

**Pulse Waveform**

**ESD Pulse Waveform (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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