

APPLICATIONS

- ✧ Portable Electronics.
- ✧ Microprocessor Based Equipment.
- ✧ Set-Top Box.
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Industrial Controls.
- ✧ Peripherals.

IEC COMPATIBILITY

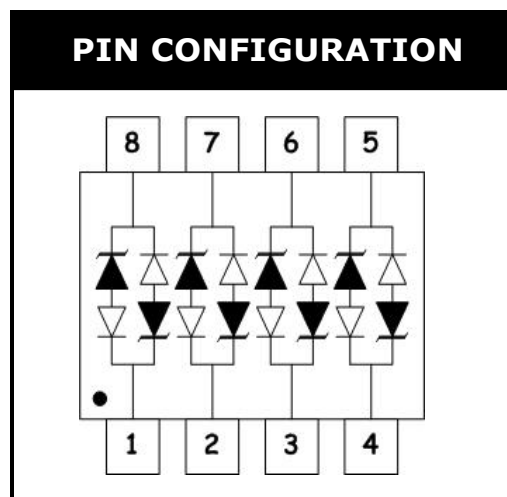
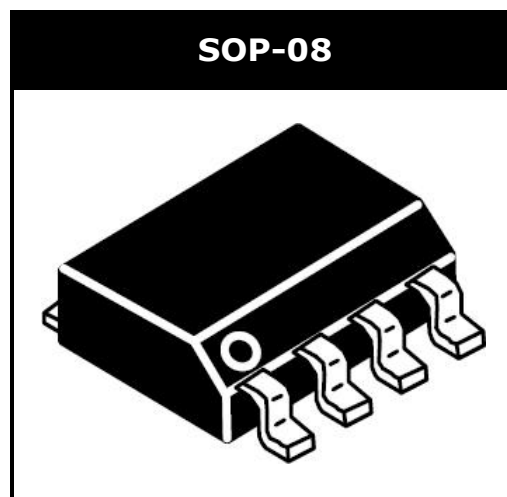
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 25A (8/20 μs).

FEATURES

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

MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOP-08 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 70.0 Milligrams (Approximate).
- ✧ Quantity Per Reel : 2,500pcs.
- ✧ 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 _{PP} | 500 | 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) (typ.) |
| LCDA3.3CP08 | BLCDA03C-4 | 3.3 | 4.0 | 1 | 7.5 | 20 | 26 | 40 | 5 |

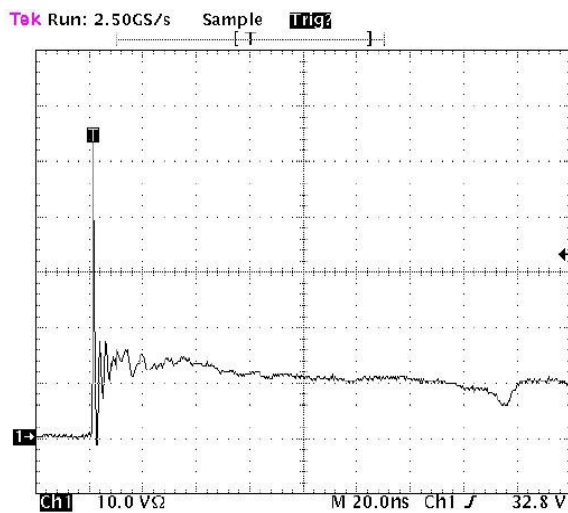


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV Contact per IEC61000-4-2

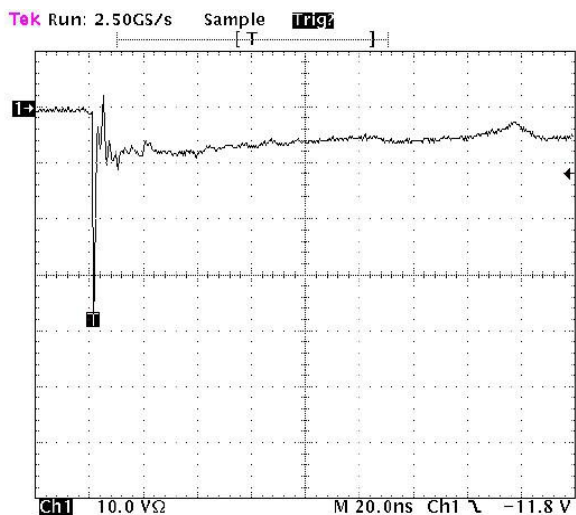
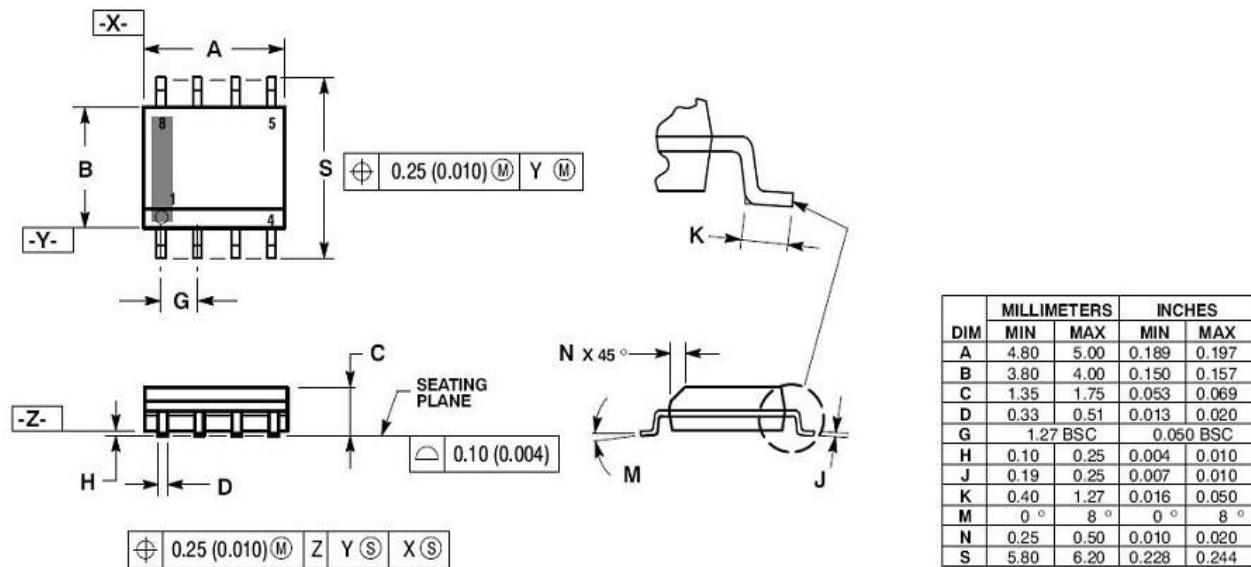
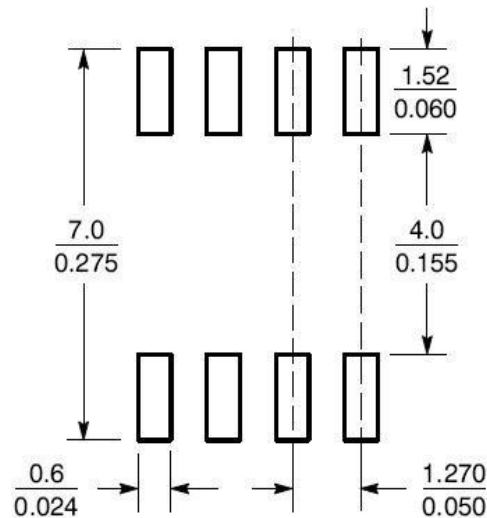


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV Contact per IEC61000-4-2

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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