

APPLICATIONS

- ✧ High-Speed Data Lines.
- ✧ Microprocessor Based Equipment.
- ✧ Test & Measurement Equipment.
- ✧ Notebooks, Desktops, and Servers.
- ✧ Instrumentation.
- ✧ Audio/Video Inputs.
- ✧ LAN/WAN Equipment.
- ✧ Peripherals.

IEC COMPATIBILITY

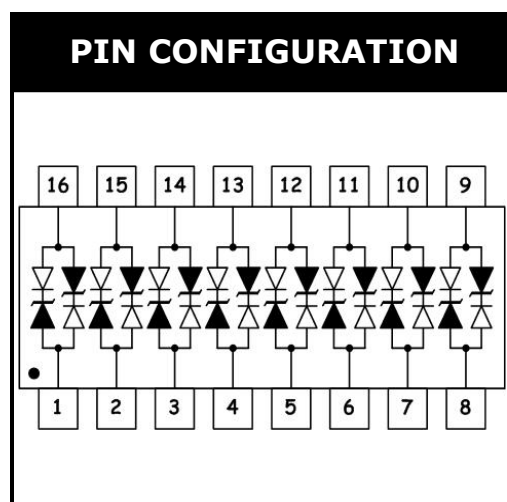
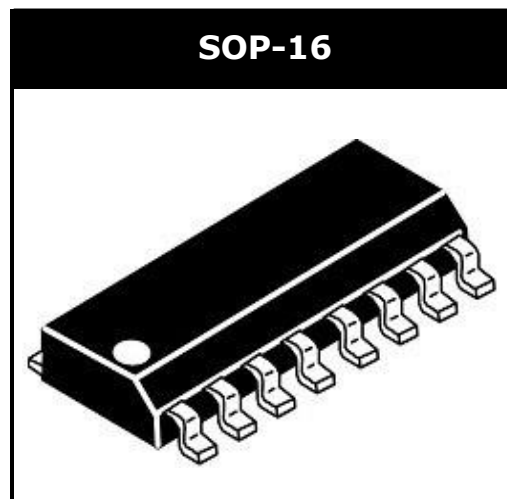
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

FEATURES

- ✧ 500 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects Eight I/O Lines.
- ✧ Low Capacitance For High-Speed Data Lines.
- ✧ RoHS Compliant.

MECHANICAL CHARACTERISTICS

- ✧ JEDEC SOP-16 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 150 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.)
LCDA03C-8	LCDA03C-8	3.3	4.5	1	7	20	25	50	5
LCDA05C-8	LCDA05C-8	5	6.0	1	9.8	22	23	5	5
LCDA08C-8	LCDA08C-8	8	8.5	1	13.4	28	18	5	5
LCDA12C-8	LCDA12C-8	12	13.3	1	20	29	17	1	5
LCDA15C-8	LCDA15C-8	15	16.7	1	26	39	14	1	5
LCDA24C-8	LCDA24C-8	24	26.7	1	40	49	11	1	5
LCDA36C-8	LCDA36C-8	36	40.0	1	53	72	7	1	5

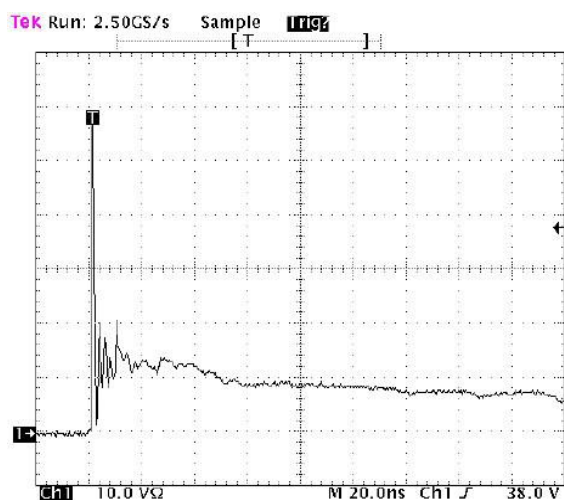


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV contact per IEC 61000-4-2

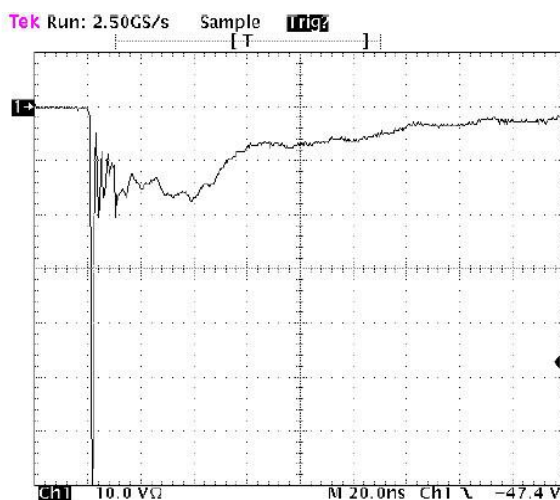
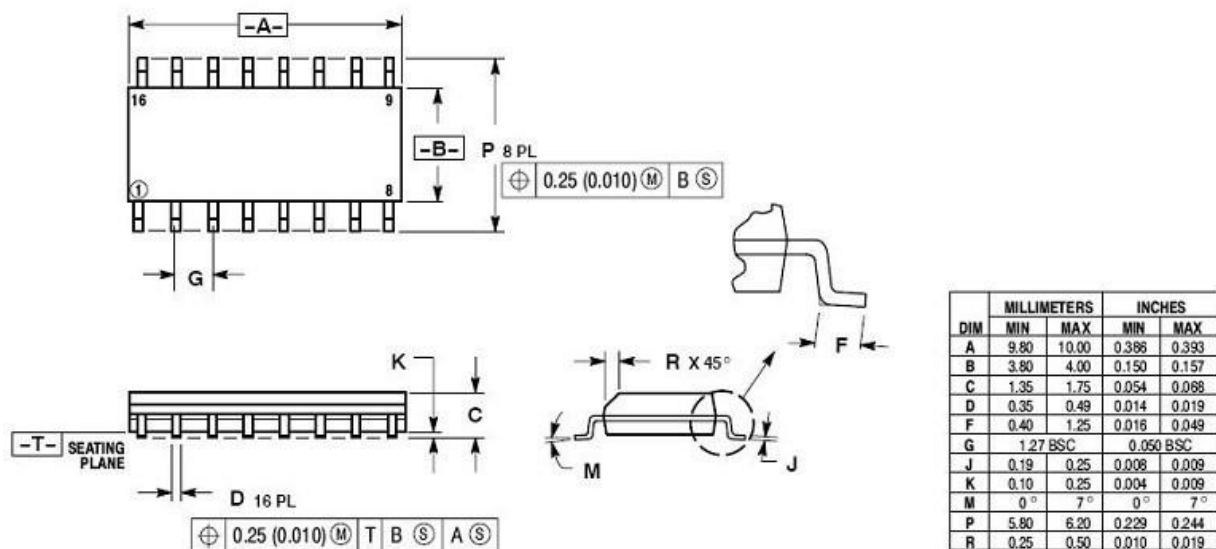
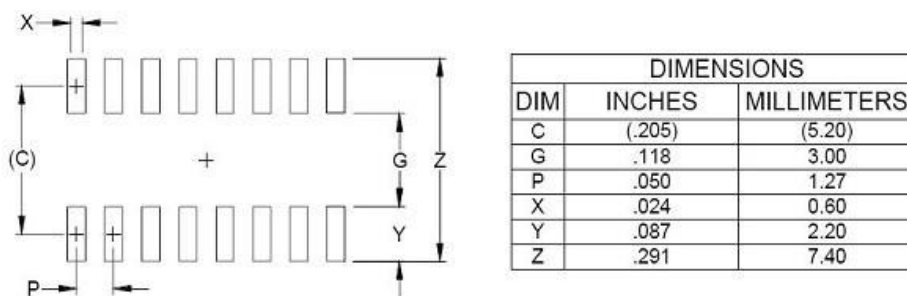


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV contact per IEC 61000-4-2

SOP-16 PACKAGE OUTLINE & DIMENSIONS

*** SOLDERING FOOTPRINT**

 Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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