

LCDA05C-8 THRU LCDA24C-8

LOW CAPACITANCE TVS DIODE ARRAY FOR EIGHT HIGH SPEED LINE PROTECTION

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

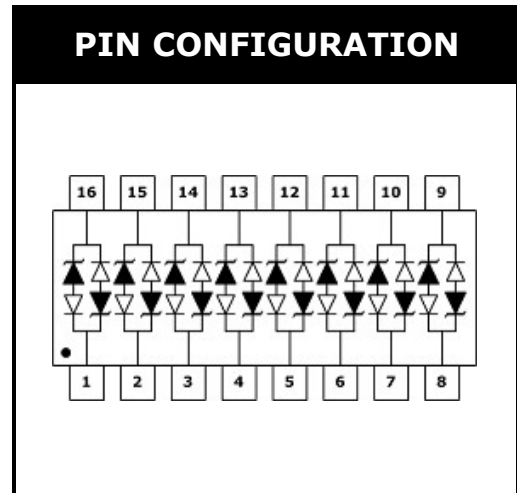
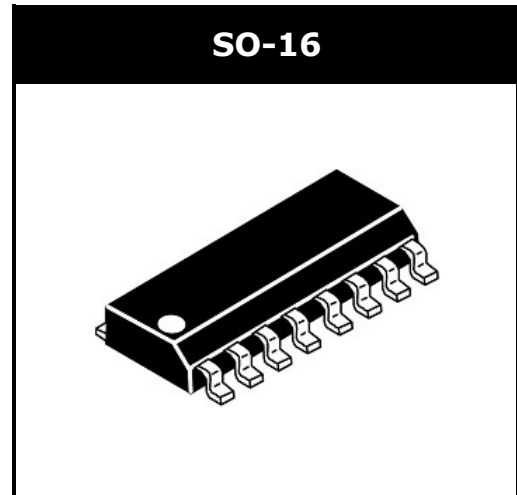
- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)
- ◆ IEC61000-4-5 (Lightning) 24A (8/20 μ s)

FEATURES

- ◆ 500 Watts Peak Pulse Power per Line ($t_p=8/20\mu$ s)
- ◆ Protects eight I/O lines
- ◆ Low capacitance for high-speed data lines
- ◆ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ◆ JEDEC SO-16 Package
- ◆ Molding Compound Flammability Rating : UL 94V-0
- ◆ Weight 150 Milligrams (Approximate)
- ◆ Quantity Per Reel : 500pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free



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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 _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(µA) (max.)	(pF) (max.)
LCDA05C-8	LCDA05C-8	5	6	1	9.8	13.5	42	20	5
LCDA12C-8	LCDA12C-8	12	13.3	1	19	25.9	27	1	5
LCDA15C-8	LCDA15C-8	15	16.7	1	24	30	17	1	5
LCDA24C-8	LCDA24C-8	24	26.7	1	43	49	12	1	5

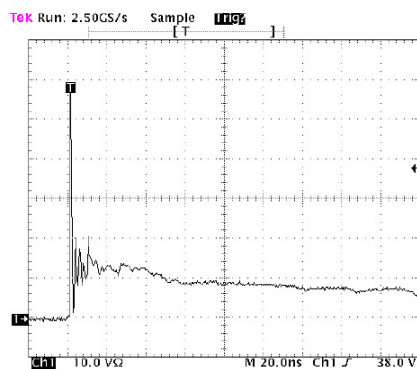
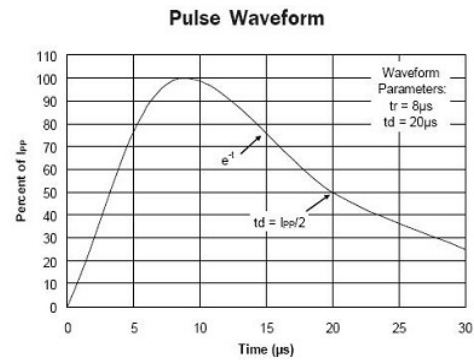
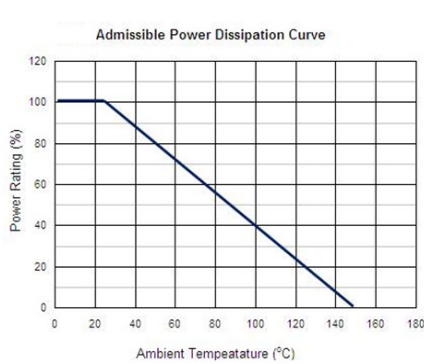


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV contact per IEC 61000-4-2

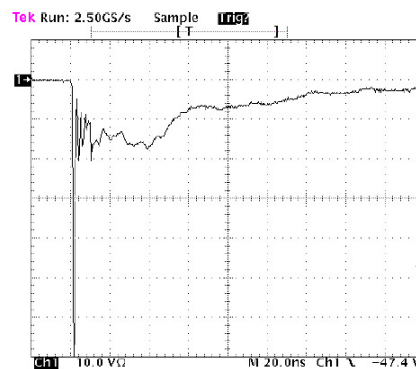
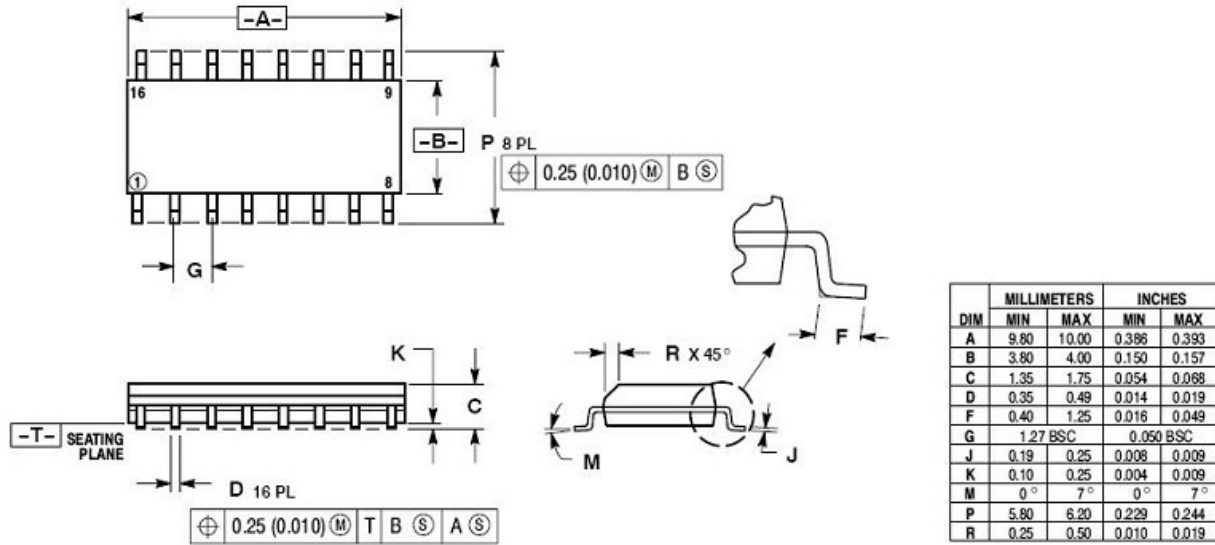


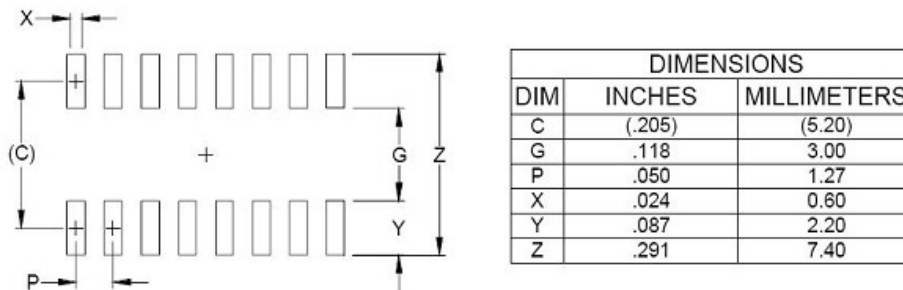
Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV contact per IEC 61000-4-2

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SO-16 PACKAGE OUTLINE & DIMENSIONS



* SOLDERING FOOTPRINT



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