



JKSEMI
金开盛电子

LCDA05 thru LCDA24

Low Capacitance TVS Diode Array For High-Speed Data Interfaces

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

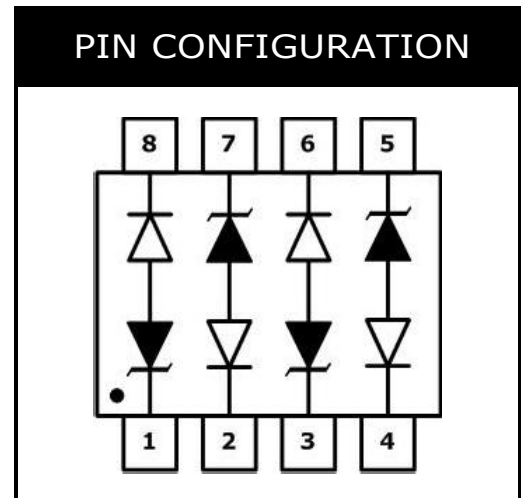
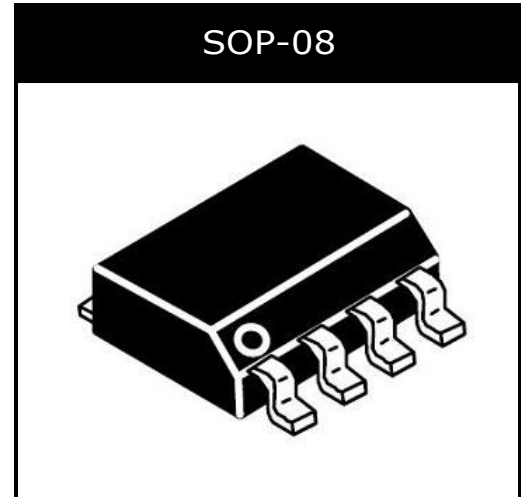
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 24A (8/20 μs).

FEATURES

- ✧ 500 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects two I/O lines.
- ✧ Low capacitance for high-speed data lines.
- ✧ 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.

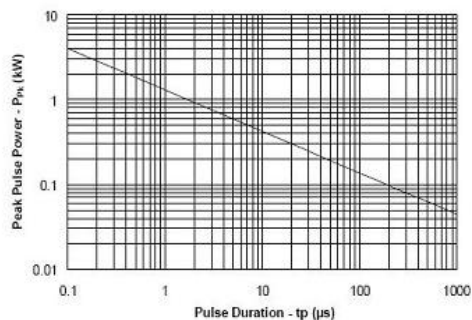
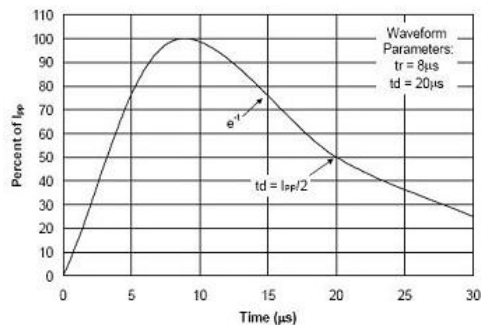


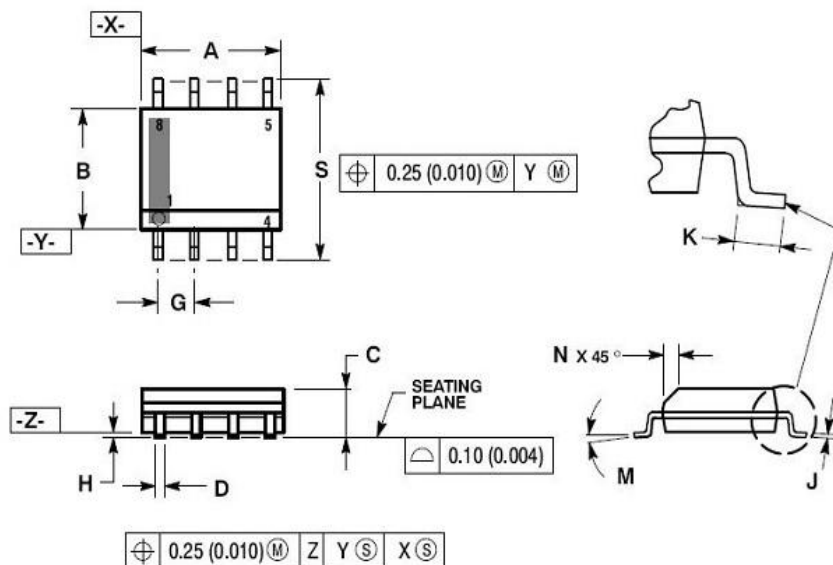
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{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

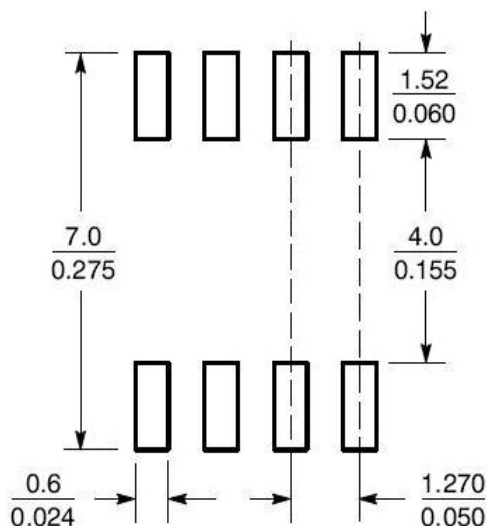
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

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.)
LCDA05	LCDA 05	5	6	1	9.8	13.5	42	20	5
LCDA12	LCDA 12	12	13.3	1	19	25.9	27	1	5
LCDA15	LCDA 15	15	16.7	1	24	30	17	1	5
LCDA24	LCDA 24	24	26.7	1	43	49	12	1	5

Non-Repetitive Peak Pulse Power vs. Pulse Time

Pulse Waveform


SOP-08 PACKAGE OUTLINE & DIMENSIONS


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.80	5.00	0.189	0.197
B	3.80	4.00	0.150	0.157
C	1.35	1.75	0.053	0.069
D	0.33	0.51	0.013	0.020
E	1.27 BSC	1.27 BSC	0.050 BSC	0.050 BSC
F	0.10	0.25	0.004	0.010
G	0.19	0.25	0.007	0.010
H	0.40	1.27	0.016	0.050
J	0°	8°	0°	8°
K	0.25	0.50	0.010	0.020
M	5.80	6.20	0.228	0.244

*** SOLDERING FOOTPRINT**


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