

APPLICATIONS

- ✧ Video On-Demand.
- ✧ ISDN Telecom Interface.
- ✧ STS-1 Interfaces.
- ✧ LAN Interconnects.
- ✧ ISDN U-Interfaces.
- ✧ 10/100 Ethernet.

IEC COMPATIBILITY

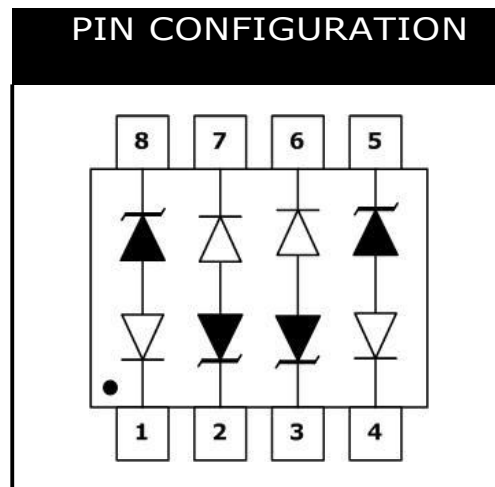
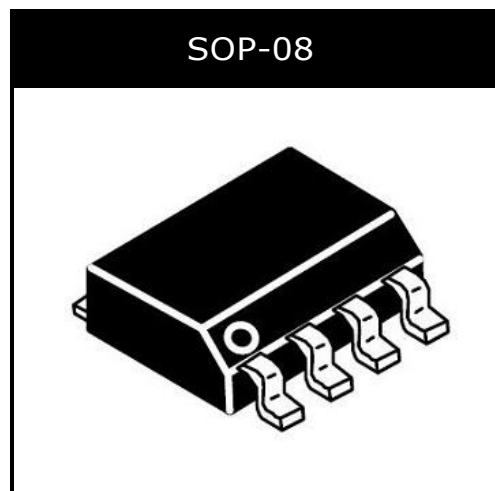
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 24A (8/20 μs).

FEATURES

- ✧ 800 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects two lines in common and differential mode.
- ✧ Low capacitance for high-speed interfaces.
- ✧ Low clamping and operating voltage.
- ✧ RoHS Compliant.

MECHANICAL CHARACTERISTICS

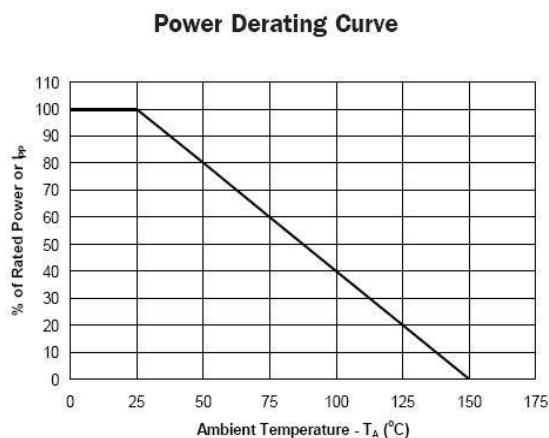
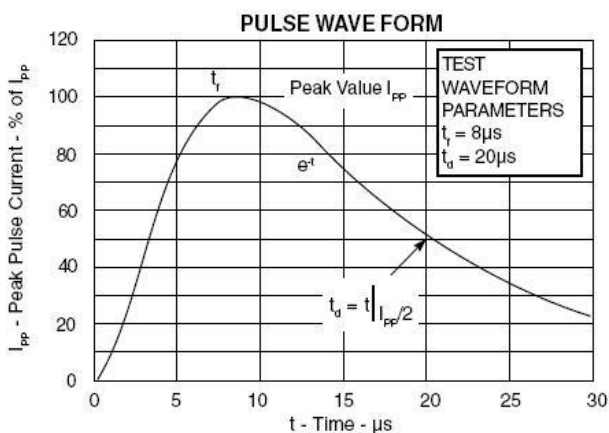
- ✧ JEDEC SOP-08 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 70 Milligrams (Approximate).
- ✧ Quantity Per Reel : 500pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

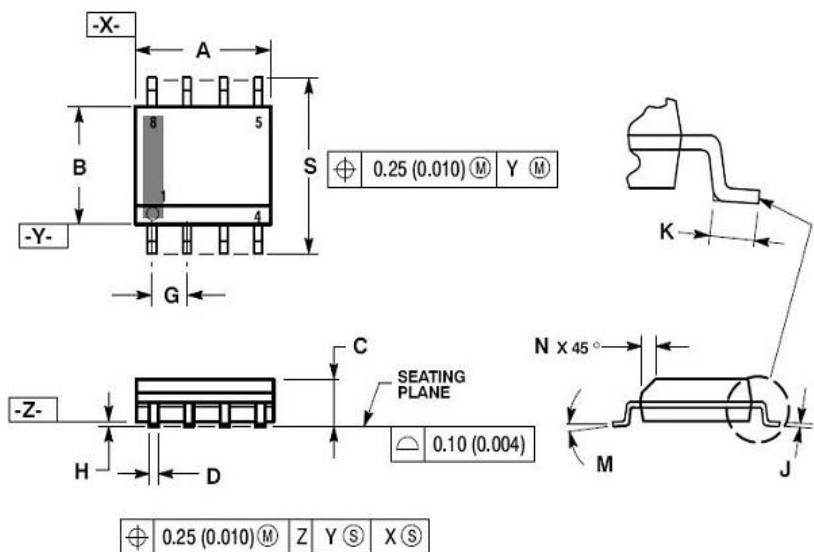


DEVICE CHARACTERISTICS

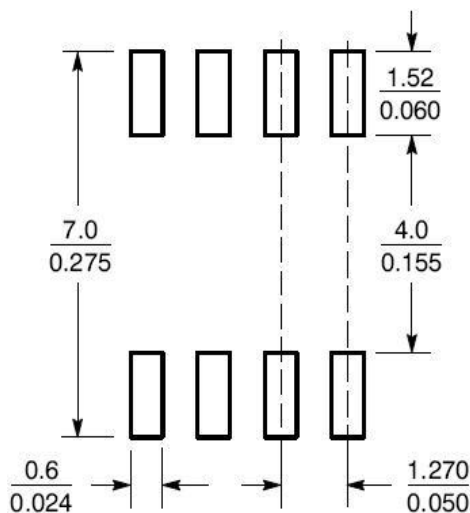
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{pp}	800	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

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.)
SM8LC03	SM8 LC03	3.3	4.5	1	7	20	45	50	15
SM8LC05	SM8 LC05	5	6.0	1	10	24	37	10	15
SM8LC12	SM8 LC12	12	13.3	1	19	33	25	1	15
SM8LC15	SM8 LC15	15	16.7	1	25	39	20	1	15
SM8LC24	SM8 LC24	24	26.7	1	40	57	15	1	15
SM8LC36	SM8 LC36	36	40.0	1	53	72	10	1	15



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
G	1.27 BSC		0.050 BSC	
H	0.10	0.25	0.004	0.010
J	0.19	0.25	0.007	0.010
K	0.40	1.27	0.016	0.050
M	0°	8°	0°	8°
N	0.25	0.50	0.010	0.020
S	5.80	6.20	0.228	0.244

*** SOLDERING FOOTPRINT**


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For additional information, please contact your local Sales Representative.

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