

Low Capacitance TVS Diode Array For High Speed Interface

APPLICATIONS

- ◆ USB Power and Data Line Protection
- ◆ T1/E1 secondary IC Side Protection
- ◆ T3/E3 secondary IC Side Protection
- ◆ HDSL, SDSL secondary IC Side Protection
- ◆ Video Line Protection
- ◆ Microcontroller Input Protection
- ◆ Base stations
- ◆ I²C Bus Protection

IEC COMPATIBILITY

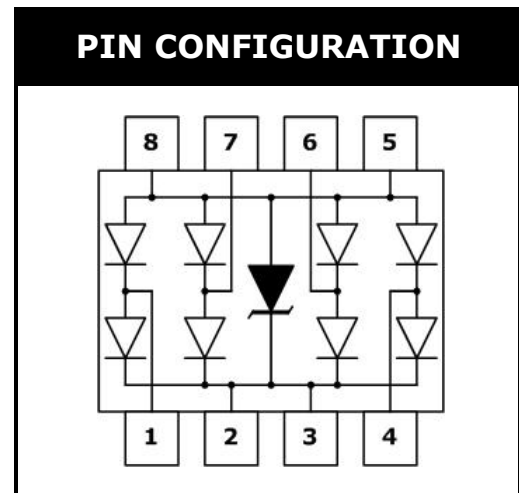
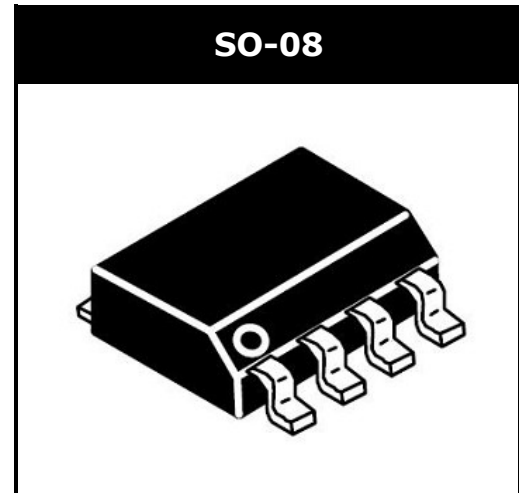
- ◆ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)
- ◆ IEC61000-4-5 (Lightning) 24A (8/20 μ s)

FEATURES

- ◆ 500 Watts Peak Pulse Power per Line (tp=8/20 μ s)
- ◆ Protects Four High Speed I/O lines
- ◆ Low capacitance (<5pF) for high-speed interfaces
- ◆ Low clamping and operating voltage
- ◆ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ◆ JEDEC SO-08 Package
- ◆ Molding Compound Flammability Rating : UL 94V-0
- ◆ Weight 70 Milligrams (Approximate)
- ◆ Quantity Per Reel : 500pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free



DEVICE CHARACTERISTICS

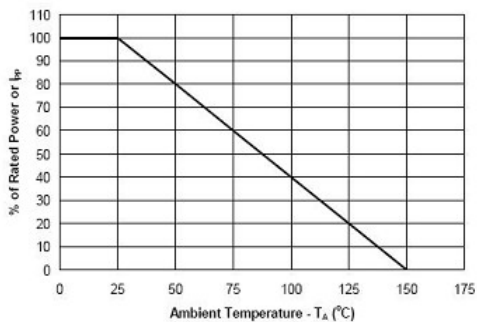
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

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

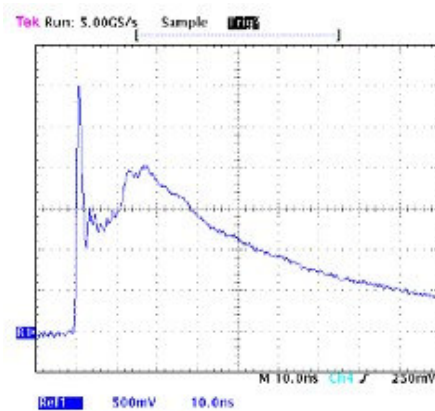
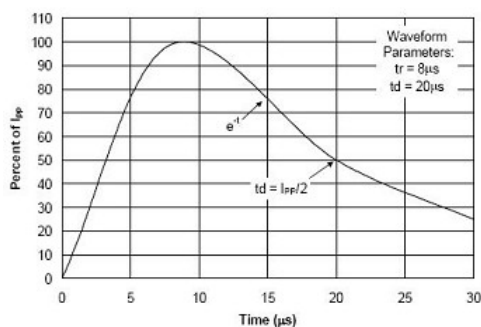
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@10A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (max.)
SRDA05-4	SRDA 05-4	5	6	1	12	20	25	10	5

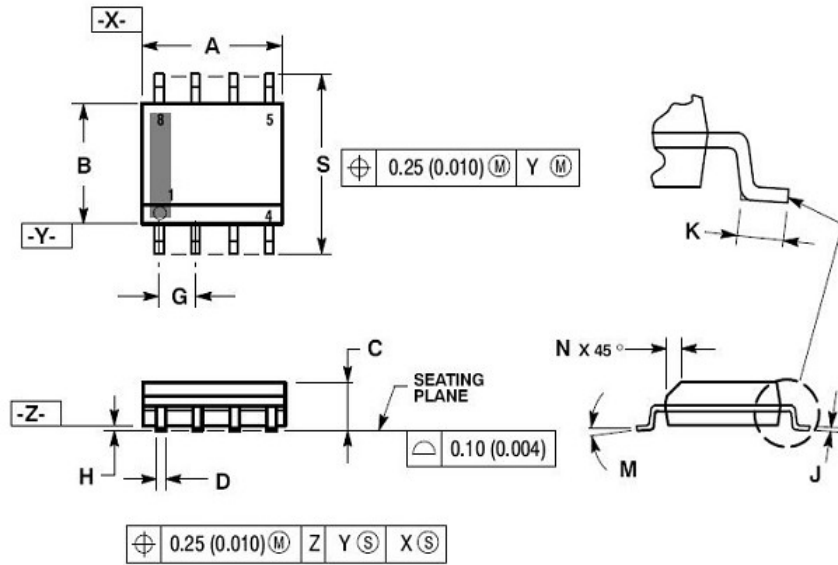
Power Derating Curve



Pulse Waveform

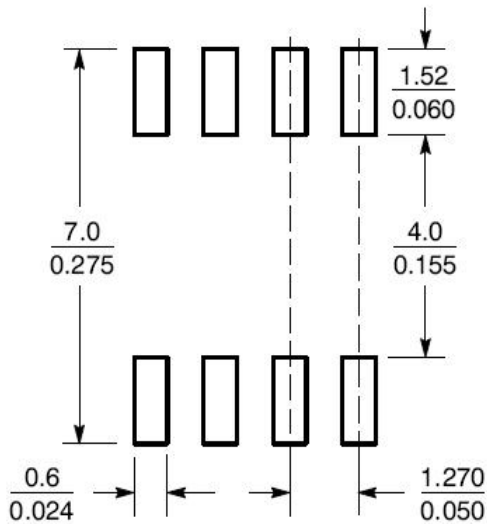


SOP-08 PACKAGE OUTLINE & DIMENSIONS



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
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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