SEMICONDUCTOR

DATA SHEET

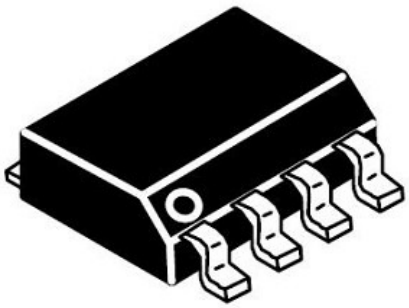
YSLC2502P8

2.5V TVS ARRAY FOR GbE PROTECTION

APPLICATIONS

- 10/100/1000 Ethernet
- WAN/LAN Equipment
- Test & Measurement Equipment
- Switching Systems
- Instrumentation
- Audio/Video Inputs

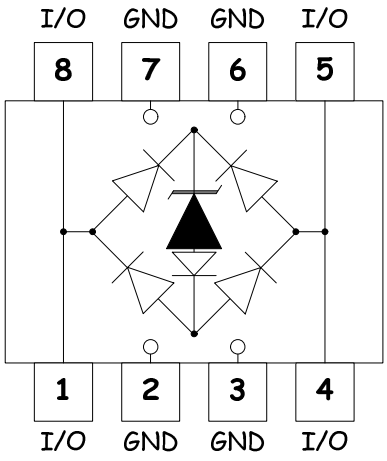
SOP-08



IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50 η s)
- IEC61000-4-5 (Lightning) 40A (8/20μs)

PIN CONFIGURATION



FEATURES

- 800 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects two line pairs
- Low capacitance
- RoHS Compliant

MECHANICAL CHARACTERISTICS

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

DEVICE CHARACTERISTICS

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MAXIMUM RATINGS (@ 25℃ 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.)	℃
Operating Temperature Range	T_J	-55 ~ 150	℃
Storage Temperature Range	T_{STG}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS PER LINE (@ 25℃ Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	V_C (I/Os) @12A (max.)	V_C (I/Os) @24A (max.)	V_C (I/Os) @40A (max.)	I_R (μA) (max.)	C_T (pF) (typ.)	C_T (I/Os) (pF) (typ.)
YSLC2502P8	LC25 02P8	2.5	3.0	10.5	13.5	20	0.5	8	4

- ◆ I_R : <0.5uA, T_C = 25'C
- ◆ I_R : <1.0uA, T_C = 125'C

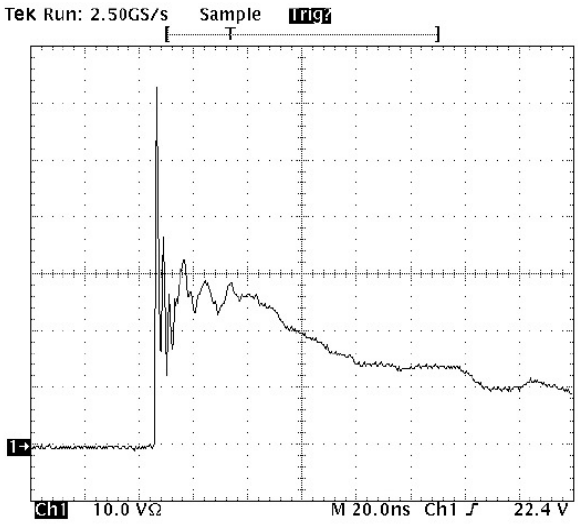


Figure 1. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2

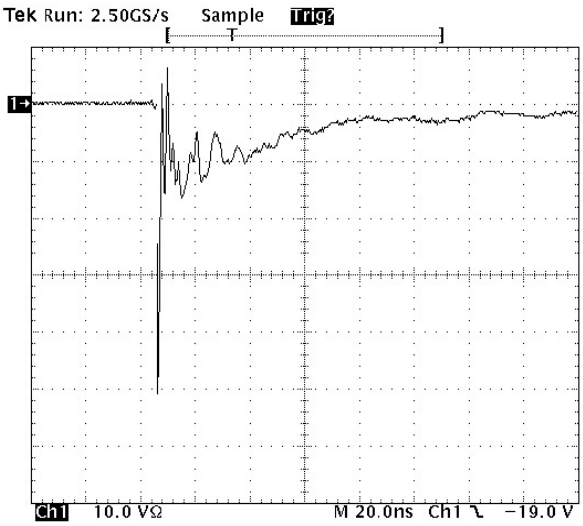
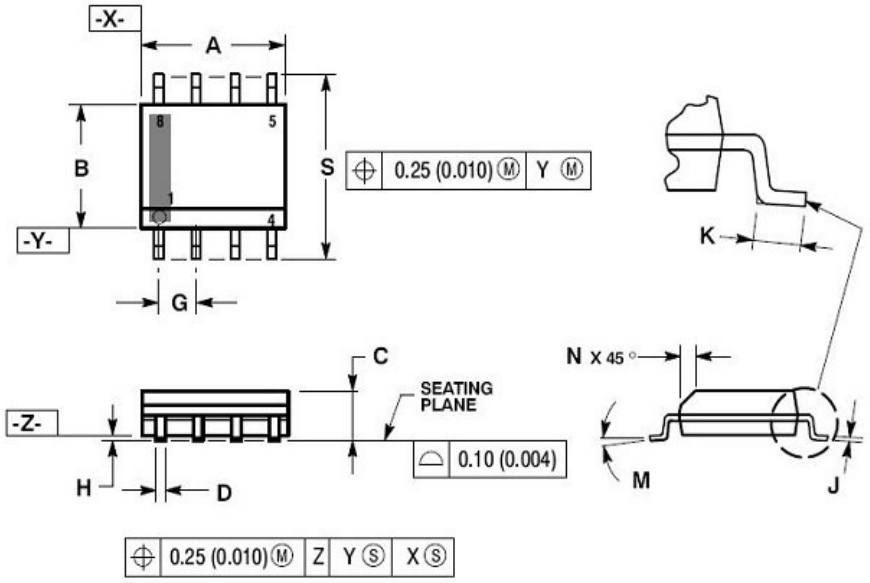


Figure 2. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2

PACKAGE OUTLINE & DIMENSIONS

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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

