



# SLVU2.8-4

## Low Capacitance TVS Diode Array

### APPLICATIONS

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

### IEC COMPATIBILITY

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

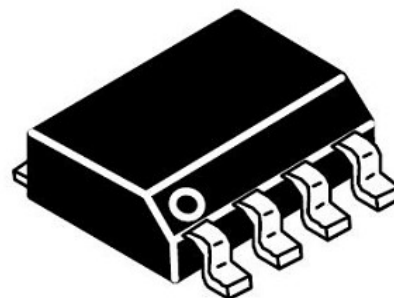
### FEATURES

- ◆ 400 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ )
- ◆ Protects two line pairs (four lines)
- ◆ Low capacitance
- ◆ RoHS Compliant

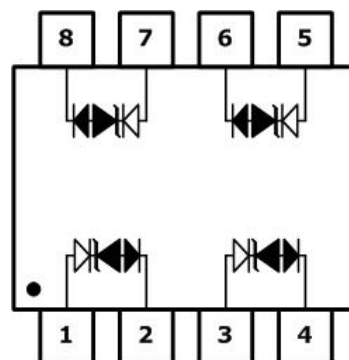
### MECHANICAL CHARACTERISTICS

- ◆ JEDEC SO-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

SO-08



PIN CONFIGURATION





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## DEVICE CHARACTERISTICS

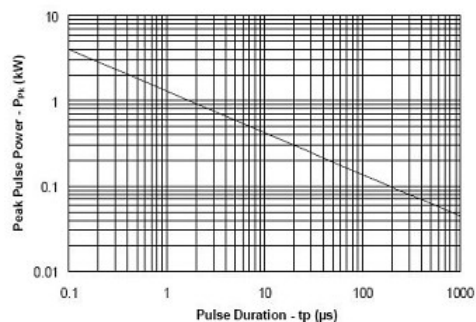
### MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

| PARAMETER                             | SYMBOL           | VALUE         | UNITS |
|---------------------------------------|------------------|---------------|-------|
| Peak Pulse Power (tp=8/20μs waveform) | P <sub>PP</sub>  | 400           | Watts |
| Lead Soldering Temperature            | T <sub>L</sub>   | 260 (10 sec.) | °C    |
| Operating Temperature Range           | T <sub>J</sub>   | -55 ~ 150     | °C    |
| Storage Temperature Range             | T <sub>STG</sub> | -55 ~ 150     | °C    |

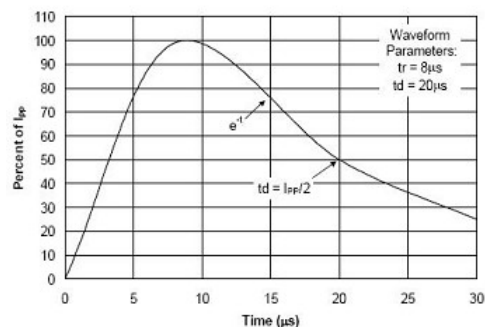
### ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

| PART NUMBER | DEVICE MARKING | V <sub>RWM</sub><br>(V)<br>(max.) | V <sub>B</sub><br>(V)<br>(min.) | I <sub>T</sub><br>(mA) | V <sub>C</sub><br>@5A<br>(max.) | V <sub>C</sub><br>(max.) (@A) | I <sub>R</sub><br>(μA)<br>(max.) | C <sub>T</sub><br>(pF)<br>(typ.) |
|-------------|----------------|-----------------------------------|---------------------------------|------------------------|---------------------------------|-------------------------------|----------------------------------|----------------------------------|
| SLVU2.8-4   | SLVU<br>2.8-4  | 2.8                               | 3.0                             | 1                      | 8.5                             | 15 24                         | 1                                | 3                                |

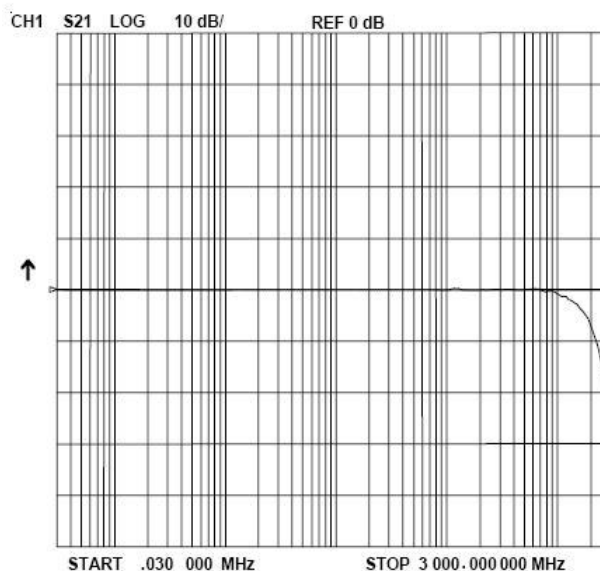
Non-Repetitive Peak Pulse Power vs. Pulse Time



Pulse Waveform



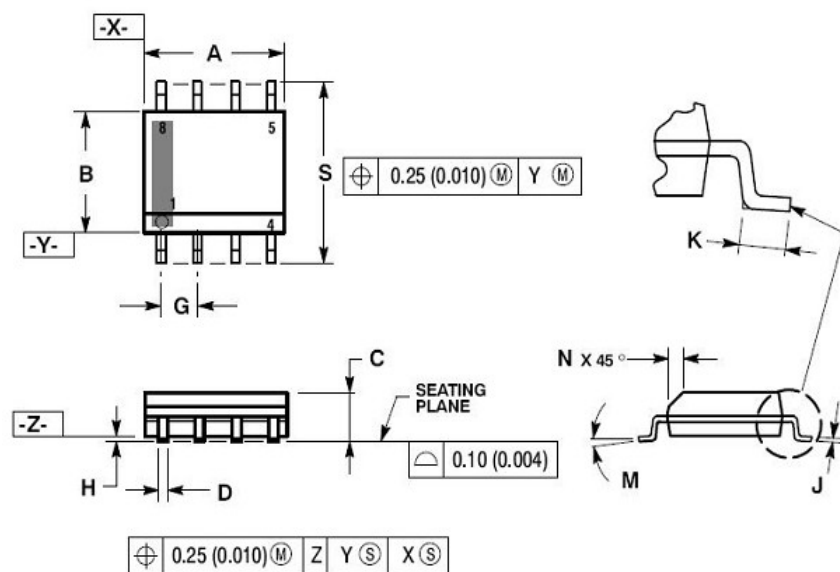
Insertion Loss S21





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## SO-08 PACKAGE OUTLINE & DIMENSIONS



### \* SOLDERING FOOTPRINT

