

# TUSD05K7U

## ULTRA LOW CAPACITANCE TVS DIODE ARRAYS

### APPLICATIONS

- ◆ USB Series or High-Speed Data Line
- ◆ Microprocessor based equipment
- ◆ Video Graphs Cards
- ◆ Digital Video Interface (DVI)
- ◆ High Definition Multi-Media Interface (HDMI)
- ◆ ATM Interfaces
- ◆ IEEE1394 Firewire Ports

### IEC COMPATIBILITY

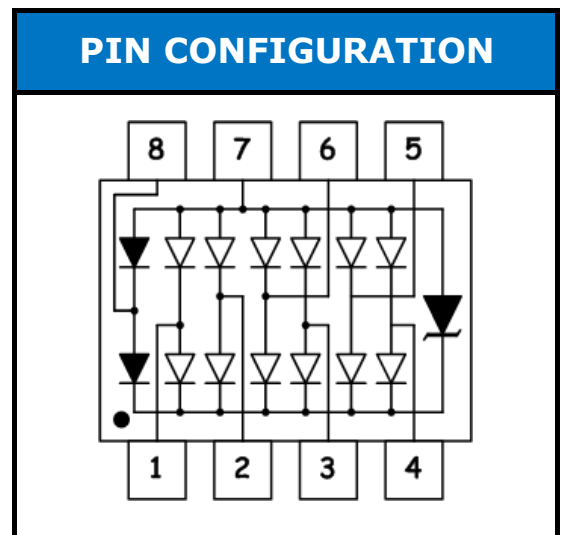
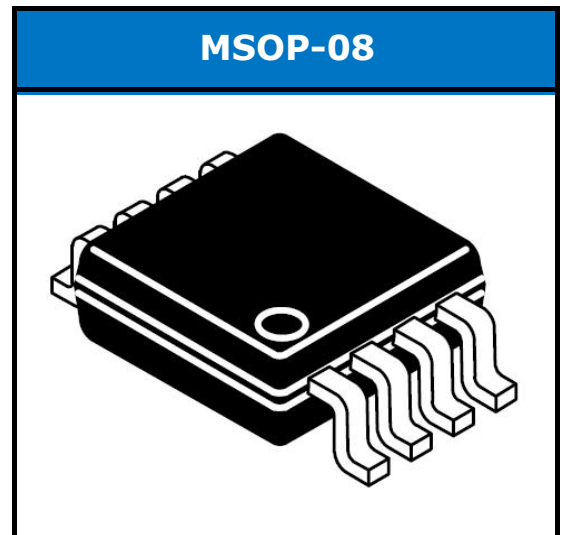
- ◆ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50  $\eta$  s)
- ◆ IEC61000-4-5 (Lighting) 3A (8/20  $\mu$  s)

### FEATURES

- ◆ 100 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ )
- ◆ Protects Six High-Speed I/O lines
- ◆ Low clamping voltage
- ◆ Working voltages : 5V
- ◆ Low leakage current

### MECHANICAL CHARACTERISTICS

- ◆ MSOP-08 Package
- ◆ Molding Compound Flammability Rating : UL 94V-0
- ◆ Weight 25 Milligrams (Approximate)
- ◆ Quantity Per Reel : 1,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free



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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>	100	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>	V <sub>B</sub>	I <sub>T</sub>	V <sub>C</sub>	V <sub>C</sub>		I <sub>R</sub>	C <sub>T</sub>
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(µA) (max.)	(pF) (typ.)
TUSD05K7U	UC68M	5	6	1	9.8	23	3	1	1

