

LOW CAPACITANCE TVS DIODE ARRAY**APPLICATIONS**

- ◆ USB Power & Data Line Protection
- ◆ Ethernet 10BaseT
- ◆ I²C Bus Protection
- ◆ Video Line Protection
- ◆ T1/E1 secondary IC Side Protection
- ◆ Microcontroller Input Protection
- ◆ ISDN S/T Interface
- ◆ WAN/LAN Equipment

IEC COMPATIBILITY

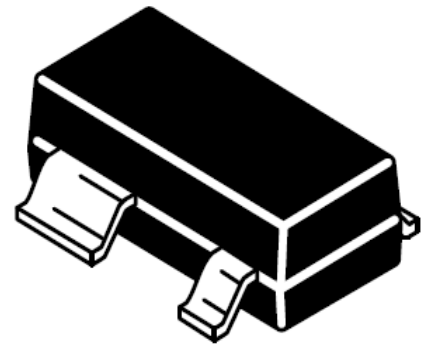
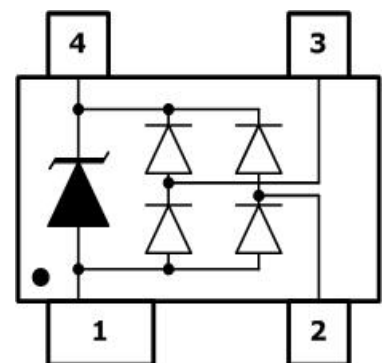
- ◆ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (Lightning) 3A (8/20μs)

FEATURES

- ◆ 46 Watts Peak Pulse Power per Line (tp=8/20μs)
- ◆ Protects two I/O lines
- ◆ Low clamping voltage
- ◆ Working voltages : 5V
- ◆ Low leakage current

MECHANICAL CHARACTERISTICS

- ◆ SOT-143 Package
- ◆ Molding Compound Flammability Rating : UL 94V-O
- ◆ Weight 10 Milligrams (Approximate)
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free

SOT-143**PIN CONFIGURATION**

**LOW CAPACITANCE TVS DIODE ARRAY****DEVICE CHARACTERISTICS**

MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

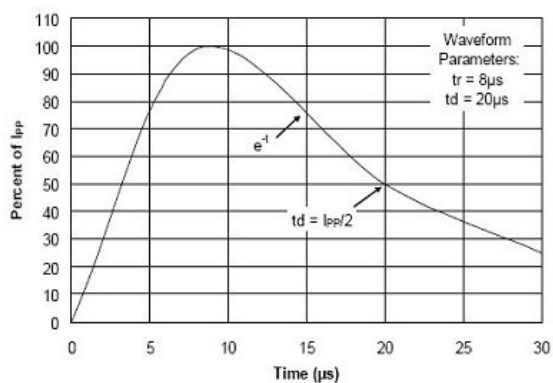
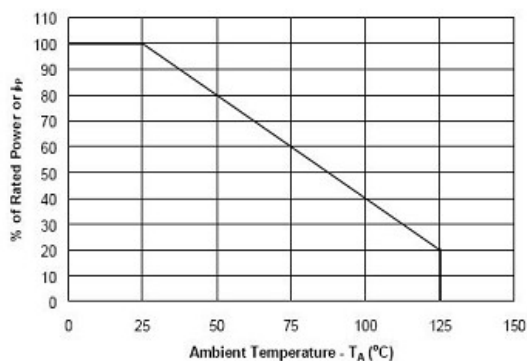
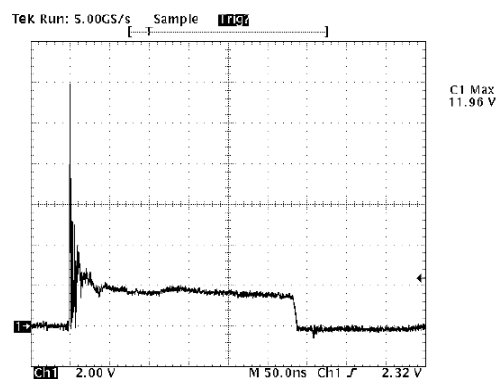
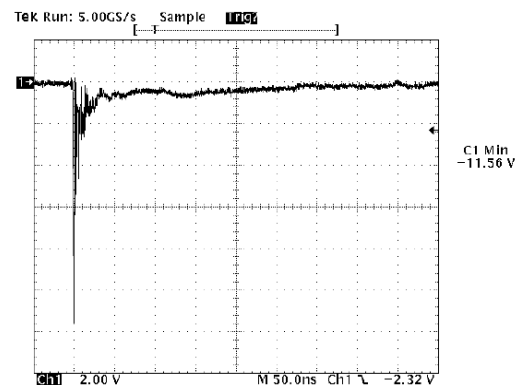
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	46	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

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.)
SESDR05	BSL3	5	6	1	9.8	23	2	1	1.2

◆ VF : <1.0V@1mA.

◆ I/O to GND : <1.2pF@0V, f=1MHz, I/O to I/O : <0.7pF@0V, f=1MHz.

Pulse Waveform**Power Derating Curve****ESD Clamping
(8kV Contact per IEC 61000-4-2)****ESD Clamping
(-8kV Contact per IEC 61000-4-2)**

SOT-143 PACKAGE OUTLINE & DIMENSIONS

