

### Features

- Ultra-Low capacitance (< 14pF)
- Low Clamping Voltage
- Working Voltage: 24V
- Low Leakage Current
- IEC 61000-4-2 (ESD)  $\pm 20\text{kV}$  (air),  $\pm 15\text{kV}$  (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)

### Mechanical Characteristics

- SOT-23 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel per EIA 481
- RoHS Compliant

RoHS



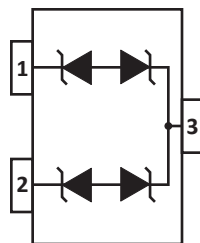
### Applications

- CAN Bus Protection
- Automotive Appllcatrons

### Ordering Information

Part Number	Qty per Reel	Reel Size
TPESD1CAN	3000	7"

### Dimensions and Pin Configuration



**Absolute Maximum Ratings** (T<sub>amb</sub>=25°C unless otherwise specified)

Rating	Symbol	Value	Units
Peak Pulse Power (tp = 8/20μs)	P <sub>pk</sub>	200	Watts
Peak Pulse Current (tp = 8/20μs)	I <sub>pp</sub>	3	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V <sub>ESD</sub>	±20 ±15	kV
Operating Temperature	T <sub>J</sub>	-55 to +125	°C
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C

**Electrical Characteristics** (T<sub>A</sub>=25°C unless otherwise specified)

PART NUMBER	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	TYPICAL CAPACITANCE
V <sub>WM</sub> VOLTS	V <sub>WM</sub> VOLTS	@ 5mA V <sub>(BR)</sub> VOLTS	@ I <sub>p</sub> = 3A V <sub>c</sub> VOLTS	@V <sub>WM</sub> I <sub>D</sub> μA	@0V, 1MHz C pF
TPESD1CAN	24	25.4	70	0.05	14

**Typical Performance Characteristics ( $T_A=25^\circ\text{C}$  unless otherwise Specified)**

Fig1. 8/20 $\mu\text{s}$  Pulse Waveform

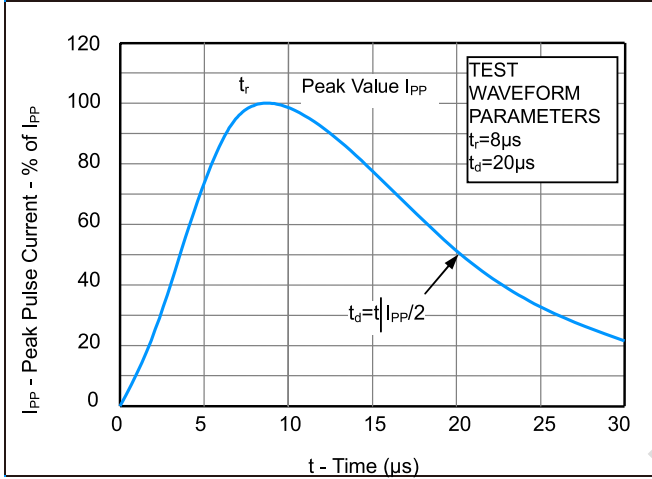


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

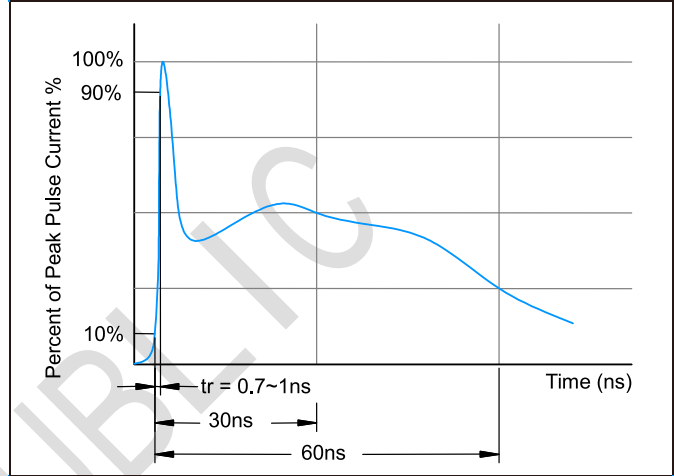


Fig3. Power Derating Curve

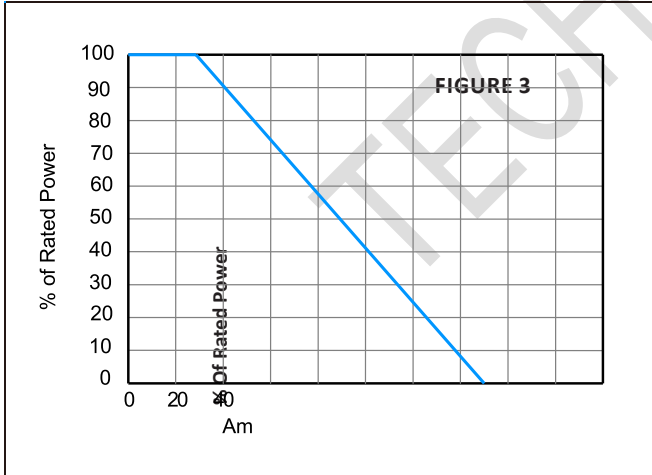
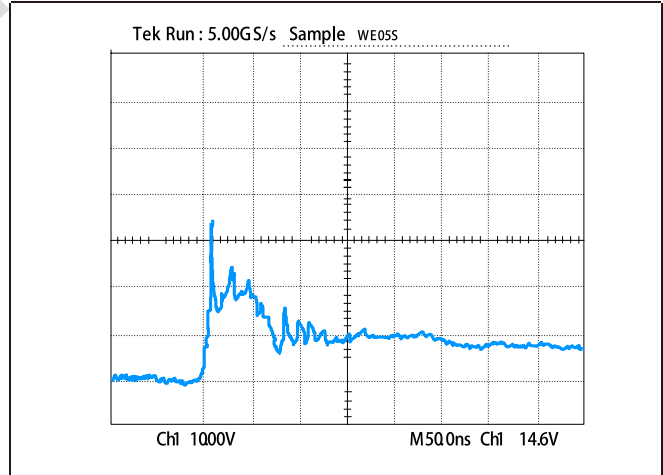
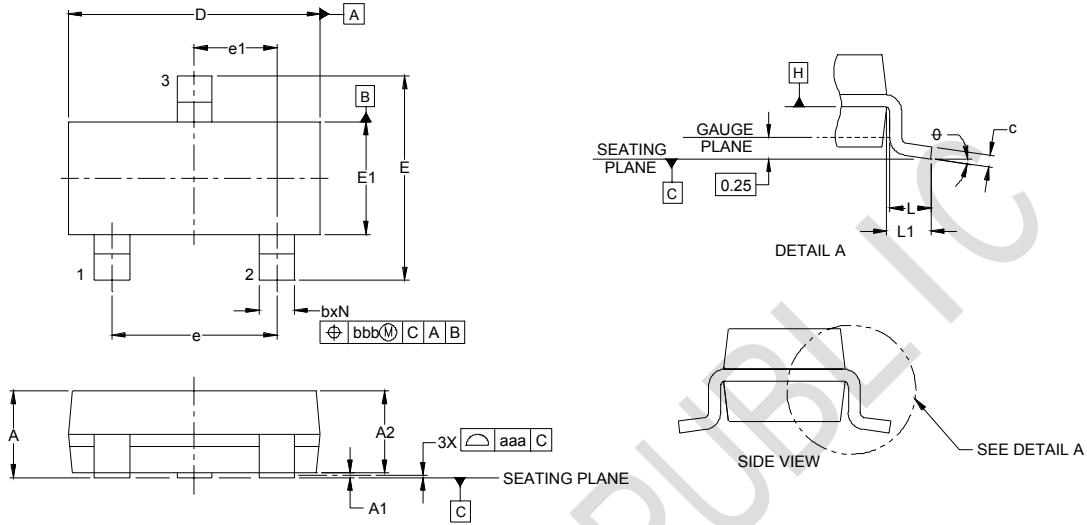


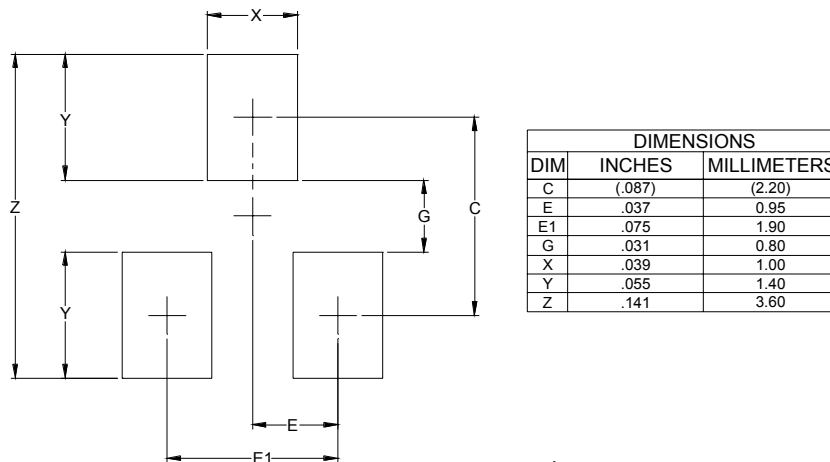
Figure 4: ESD Clamping (8kV Contact per IEC 61000-4-2)



### Outline Drawing - SOT23



### Land Pattern - SOT23



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