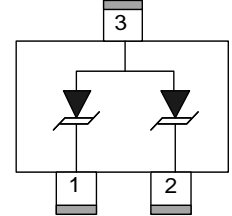
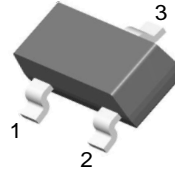


## ESD TVS Array in SOT-23

### Features

- 1000Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOT-23 package
- Uni-directional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance ( $C_j = 60pF$  typ.)
- Protection one data/power line to:
  - IEC 61000-4-2  $\pm 30kV$  contact  $\pm 30kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 40A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** SOT-23 (plastic package).  
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals

### Applications

- Microprocessor based equipment
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- Portable Instrumentation

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

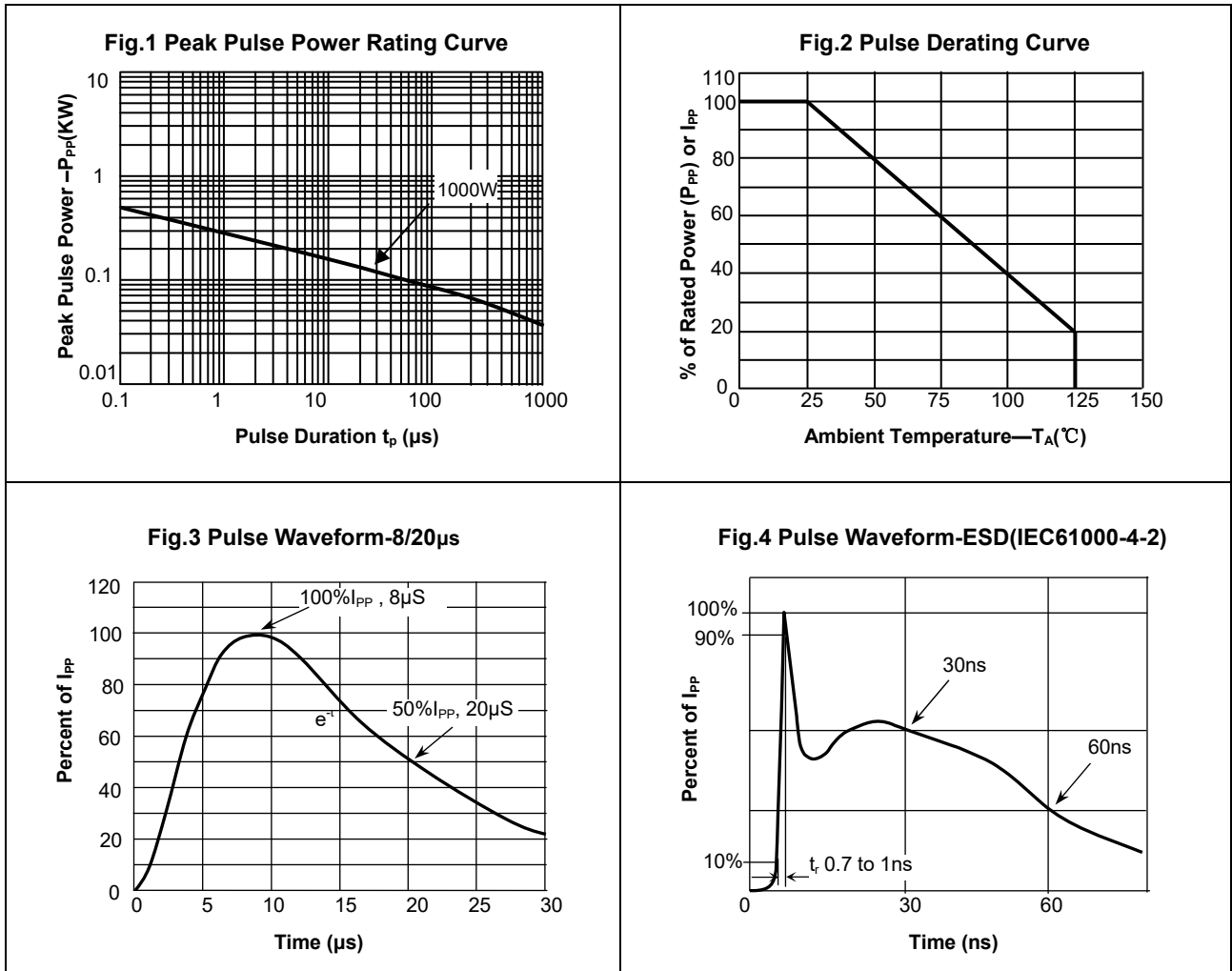
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P = 8/20\mu s$ )	$P_{PP}$	1000	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	30/30	kV
Peak Pulse Current ( $T_P = 8/20\mu s$ )	$I_{PP}$	40	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +150	°C

### Electrical Characteristics

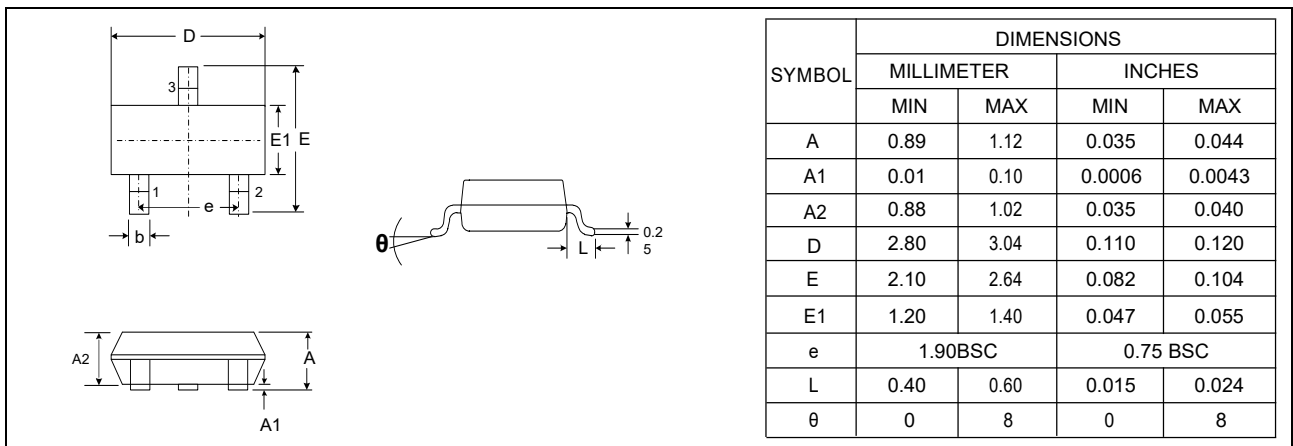
( $T_A = 25$  °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				20	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T = 1mA$	22	23.5	24	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 20V$			1	$\mu A$
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP} = 40A$		20		V
Junction Capacitance	$C_J$	$V_R = 0V, f = 1MHz$		60		pF

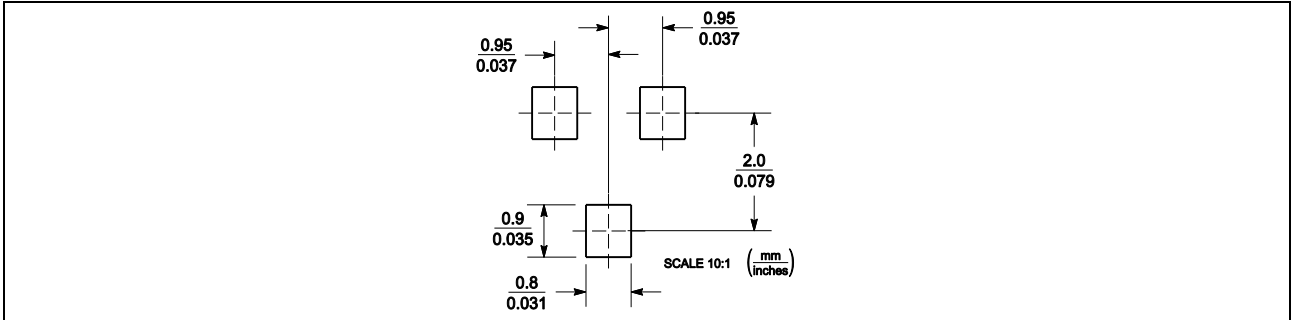
## Typical Characteristics ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



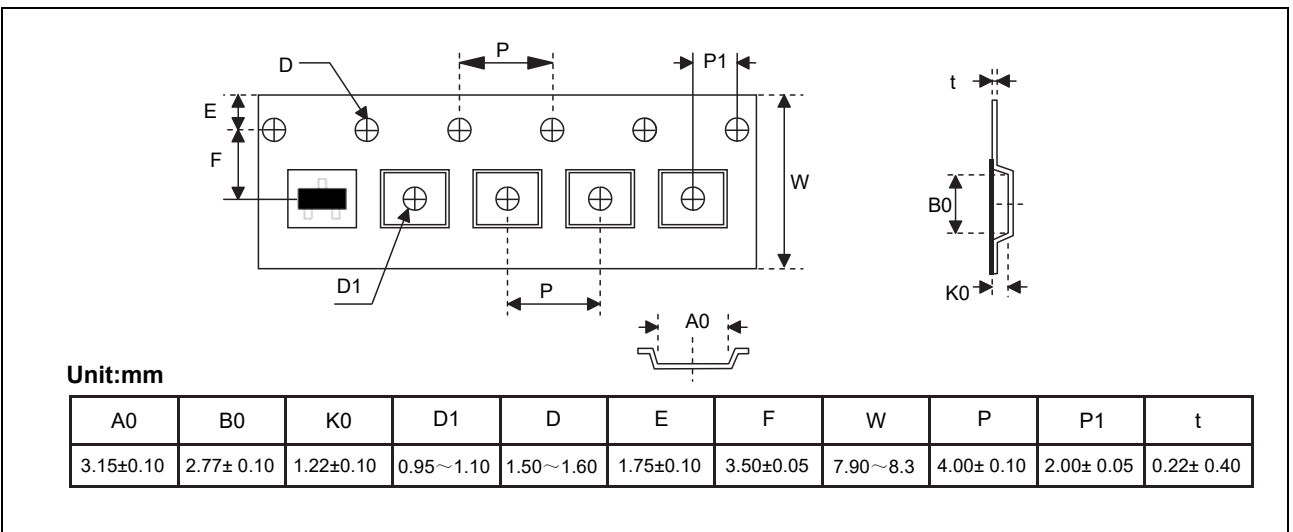
## Package Dimensions



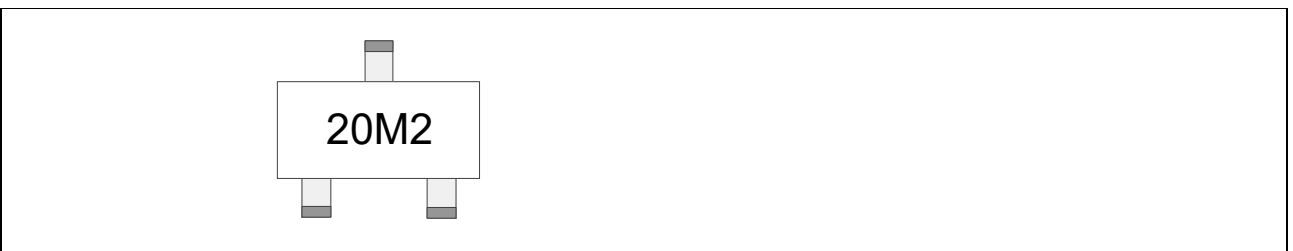
## Pad Dimensions



## Package Information



## Marking



## Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
TEST23HC20VU	SOT-23	Tape and reel	3000pcs / reel	EIA STD RS-481