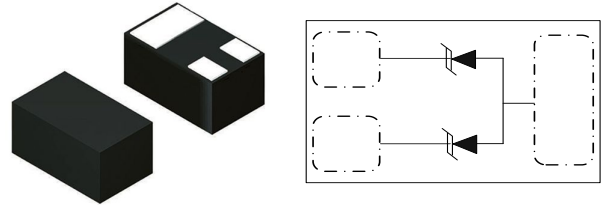


## Ultra Low Capacitance ESD Protection Diode in SOT883

### Features

- 40Watts peak pulse power ( $T_p = 8/20\mu s$ )
- SOT-883 package
- 2 Unidirectional configurations
- Low clamping voltage
- Low leakage current
- Ultra Low capacitance ( $C_j=0.3pF$  typ.)
- Protection one data/power line to:
  - IEC 61000-4-2  $\pm 15kV$  contact  $\pm 15kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 3.5A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** SOT-883 (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

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

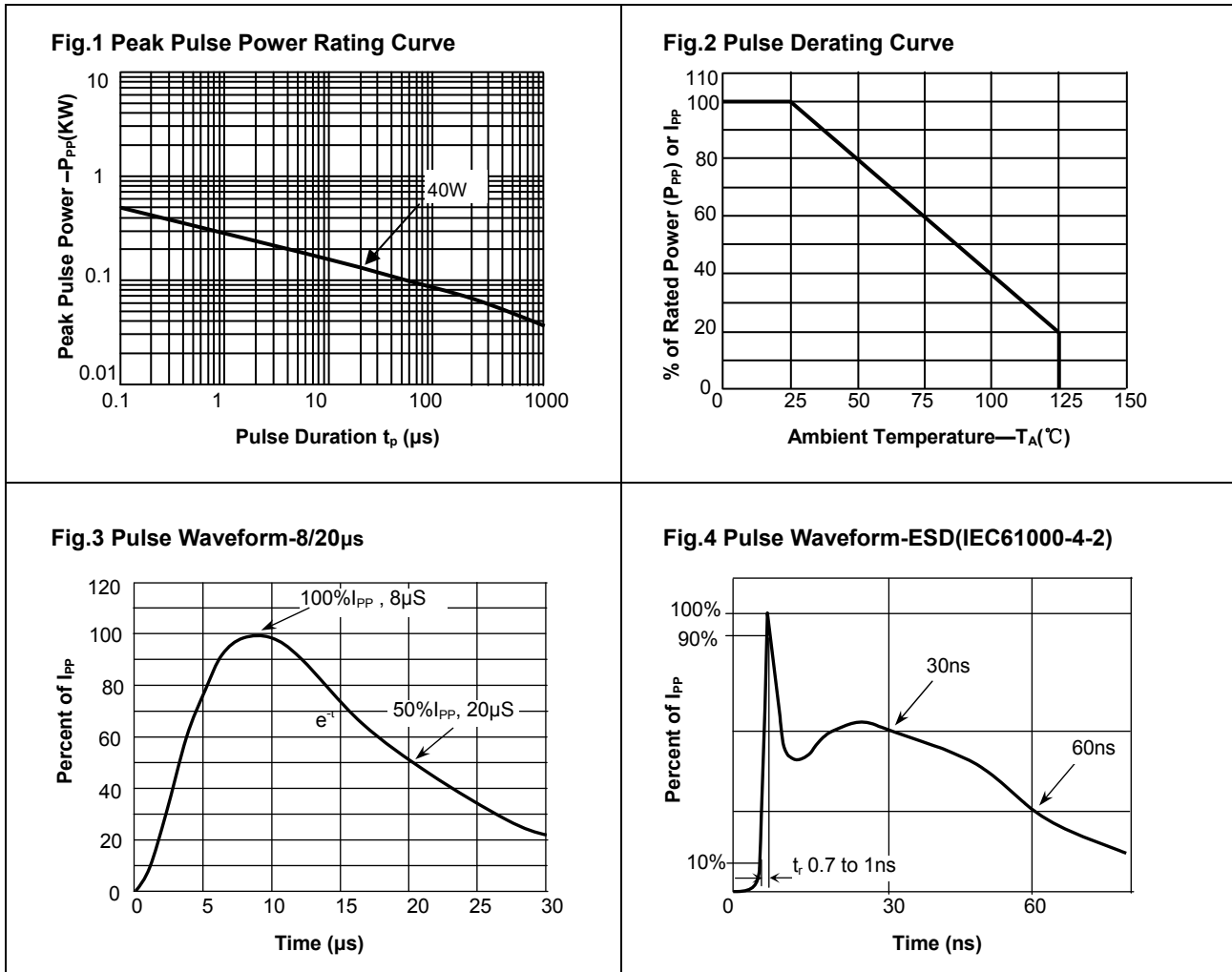
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	40	W
ESD contact/air discharge (IEC-61000-4-2)	$V_{ESD}$	15	kV
Peak Pulse Current ( $T_p = 8/20\mu s$ )	$I_{PP}$	3.5	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage temperature	$T_{STG}$	-55 to +125	°C

### Electrical Characteristics

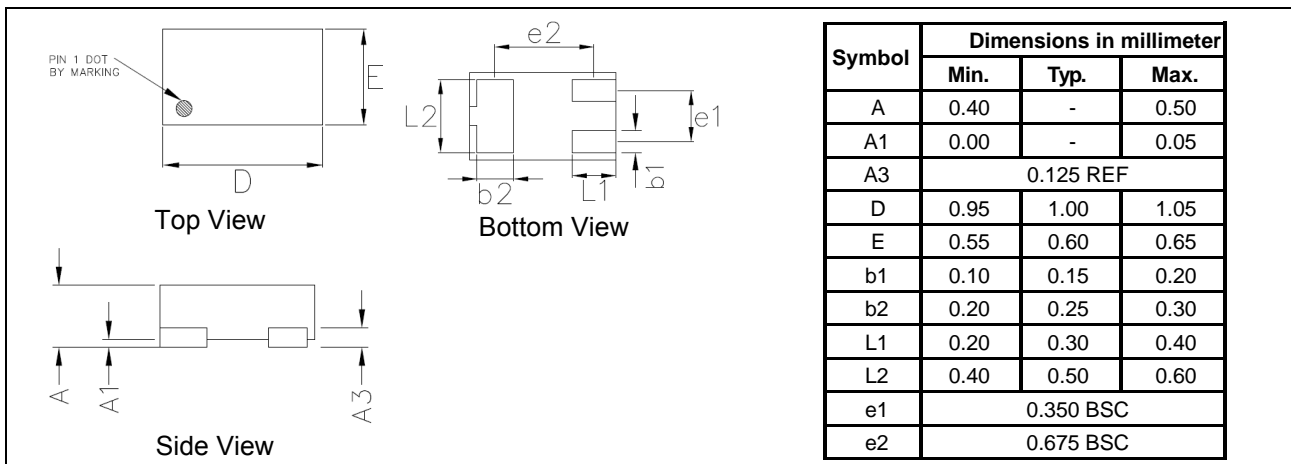
( $T_A = 25\text{ °C}$  unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$				5.0	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	5.6			V
Reverse Leakage Current	$I_R$	$V_R=5V, T=25\text{ °C}$			0.1	$\mu A$
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP}=3A, T_p=8/20\mu s$			13.5	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		0.3		pF

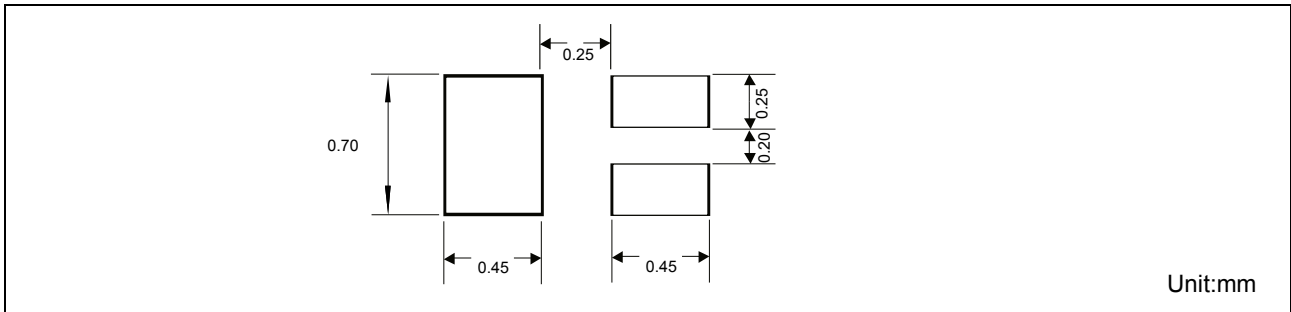
## Typical Characteristics ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



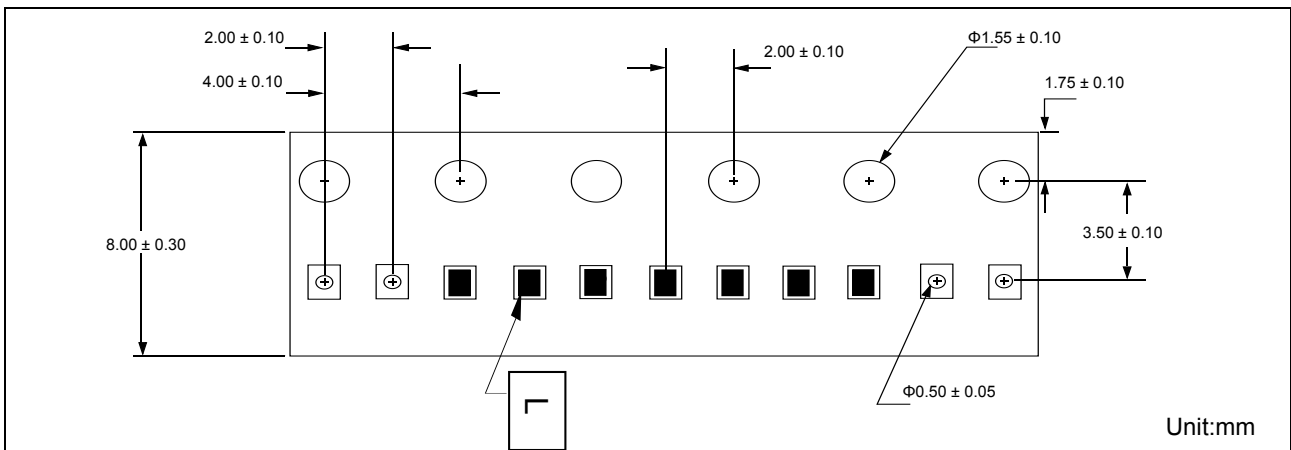
## Package Dimensions



## Pad Dimensions



## Tape and Reel Specification



## Marking



## Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
TEST883UC5VU	SOT-883	Tape and reel	10000pcs / reel	EIA STD RS-481