

## Features

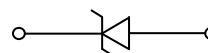
- 100 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOD-882 package
- Unidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2  $\pm 8KV$  contact  
 $\pm 15KV$  air



SOD-882

## Applications

- Cell Phones
- Notebooks
- Digital Cameras
- Portable Instrumentation
- Audio and Video Equipment



Schematic Diagram

## Absolute Maximum Ratings

( $T_A=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_p=8/20\mu s$ )	$P_{PP}$	100	W
Peak Pulse Current ( $t_p = 8/20\mu s$ )	$I_{PP}$	9.8	A
Junction Temperature	$T_J$	-55 to +125	$^\circ C$
Storage temperature	$T_{STG}$	-55 to +150	$^\circ C$

## Electrical Characteristics

( $T_A=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$	-	-	-	3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	5.0	-	-	V
Reverse Leakage Current	$I_R$	$V_R=3.3V$	-	-	2.5	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=9.8A, T_p=8/20\mu s$	-	-	10.4	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	80	-	pF

## Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

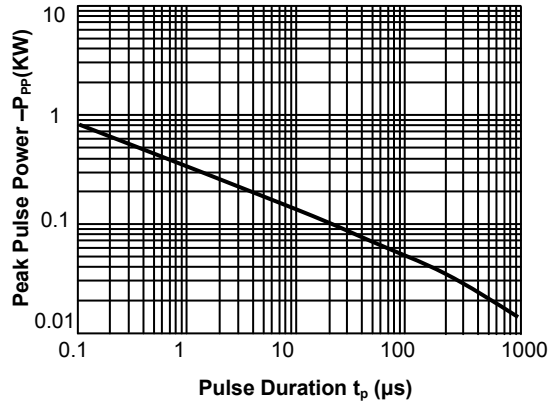


Fig.2 Pulse Derating Curve

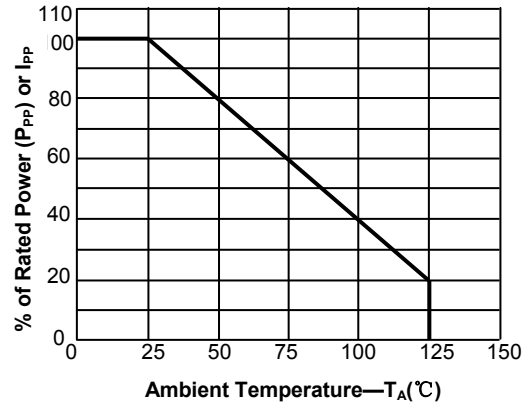


Fig.3 Pulse Waveform-8/20 $\mu\text{s}$

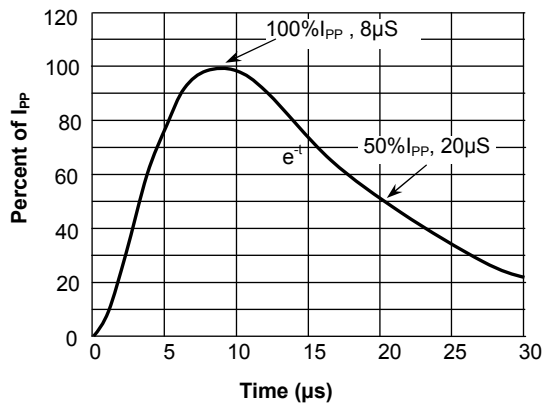
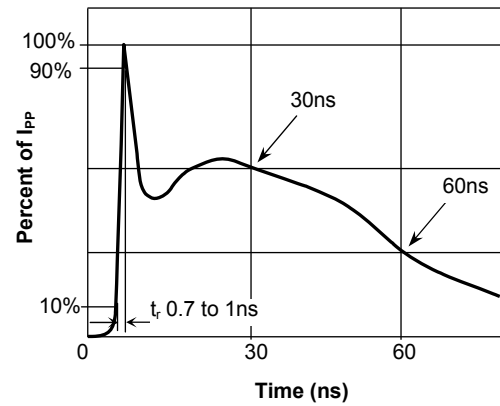
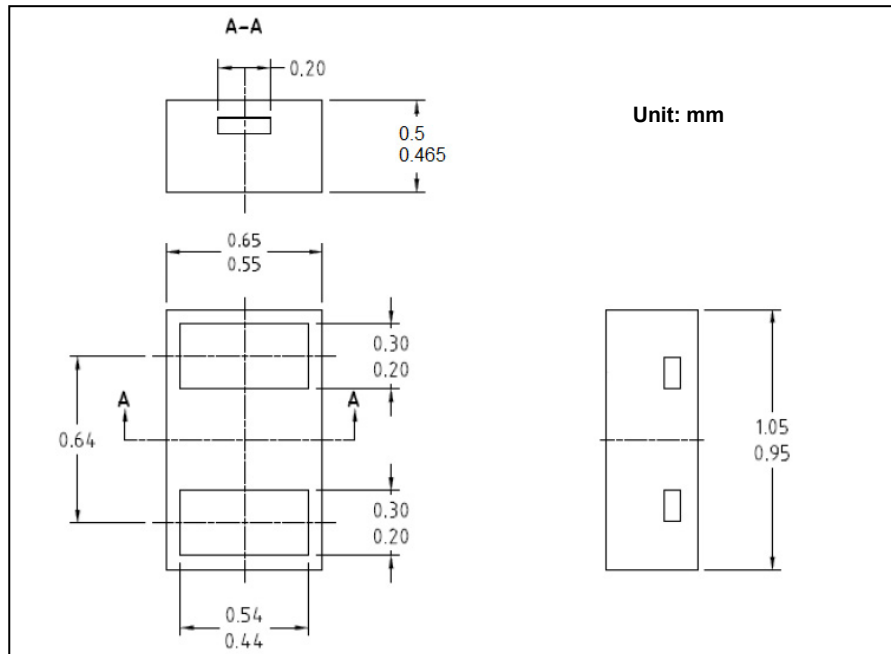


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



**Product Dimensions**

**SOD-882**



**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
SPESP3V3D882-2U	SOD-882	E	Tape & Reel	10000pcs / Reel	RoHS Compliant