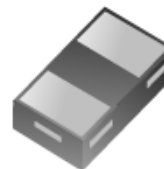


## Features

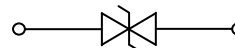
- 150 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- SOD-882 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2  $\pm 8KV$  contact  $\pm 15KV$  air
- IEC 61000-4-4 (EFT) 40A (5/50ns)



**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 ( $T_p=8/20\mu S$ )	$P_{PP}$	150	W
Peak Pulse Current ( $t_p = 8/20\mu S$ )	$I_{PP}$	11.2	A
Junction Temperature	$T_J$	-55 to +125	$^\circ C$
Storage temperature	$T_{STG}$	-55 to +150	$^\circ C$

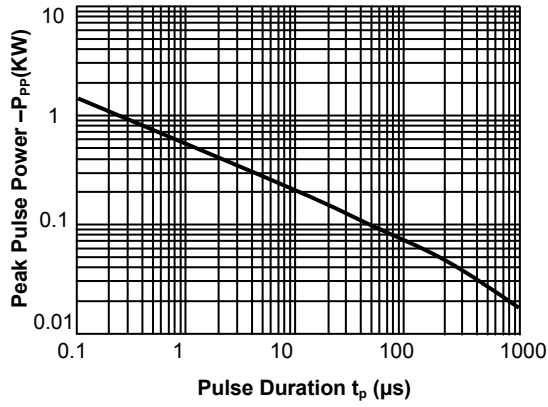
## Electrical Characteristics

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

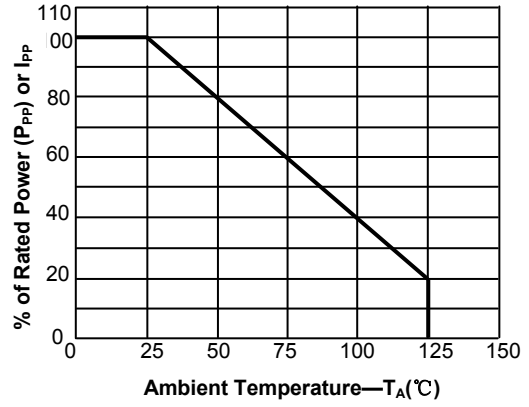
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$	-	-	-	3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	5.0	-	-	V
Reverse Leakage Current	$I_R$	$V_R=3.3V$	-	-	1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=5A, T_p=8/20\mu S$	-	-	8.4	V
	$V_C$	$I_{PP}=11.2A, T_p=8/20\mu S$	-	-	14.1	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	25	-	pF

**Typical Characteristic Curves**

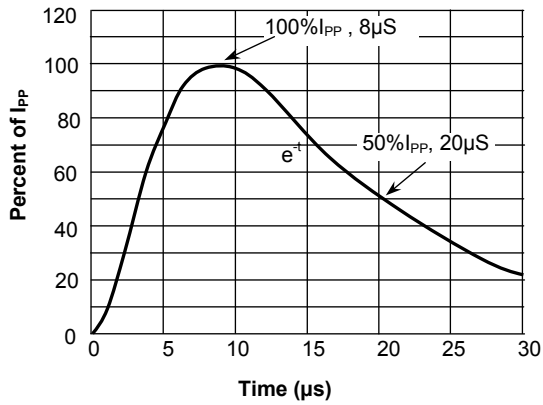
**Fig.1 Peak Pulse Power Rating Curve**



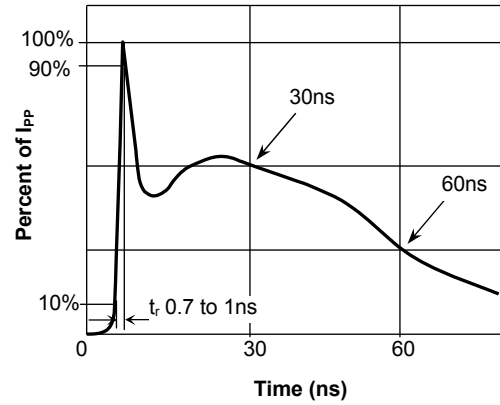
**Fig.2 Pulse Derating Curve**



**Fig.3 Pulse Waveform-8/20μs**

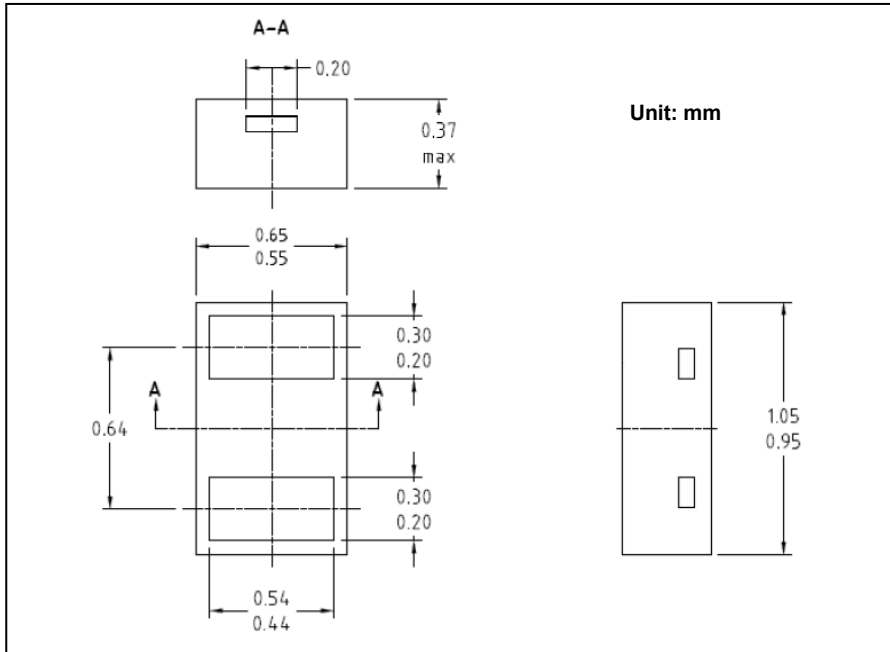


**Fig.4 Pulse Waveform-ESD(IEC61000-4-2)**



**Product Dimensions**

SOD-882



**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
SES3V3D882-2B	SOD-882	B	Tape & Reel	10000pcs / Reel	RoHS compliant