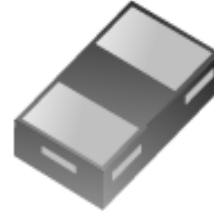


## Features

- 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
- PDA
- Notebooks
- Digital Cameras
- Portable Instruments
- 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 ( $t_p = 8/20\mu S$ )	$I_{PP}$	9.4	A
Junction Temperature	$T_J$	-55 to +125	$^\circ C$
Storage temperature	$T_{STG}$	-55 to +150	$^\circ C$

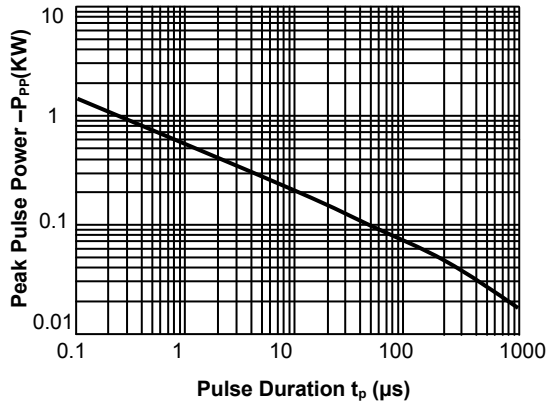
## Electrical Characteristics

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

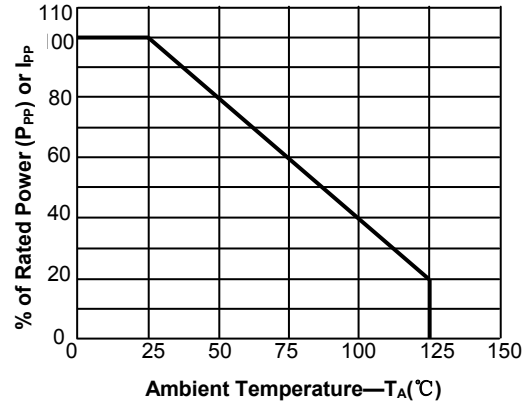
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	5.6	6.8	-	V
Reverse Leakage Current	$I_R$	$V_R=5V$	-	-	1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=5A, T_P=8/20\mu S$	-	-	11.6	V
	$V_C$	$I_{PP}=9.4A, T_P=8/20\mu S$	-	-	18.6	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	15	-	pF

## Typical Characteristic Curves

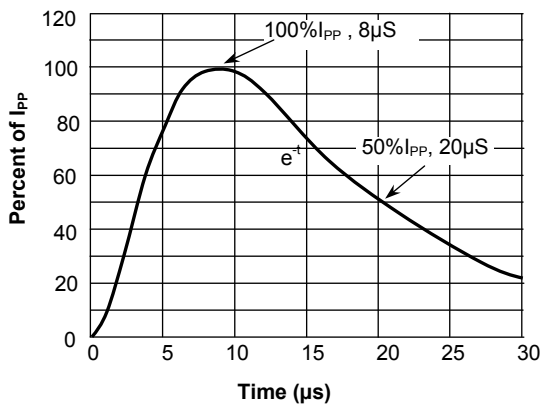
**Fig.1 Peak Pulse Power Rating Curve**



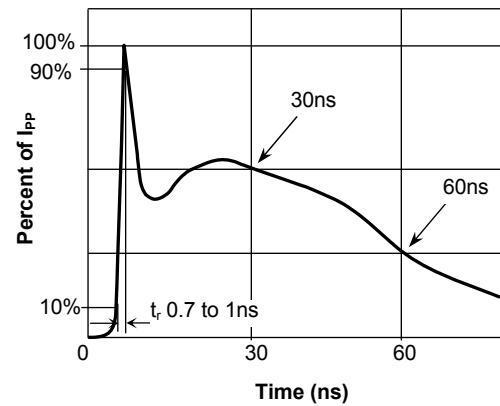
**Fig.2 Pulse Derating Curve**



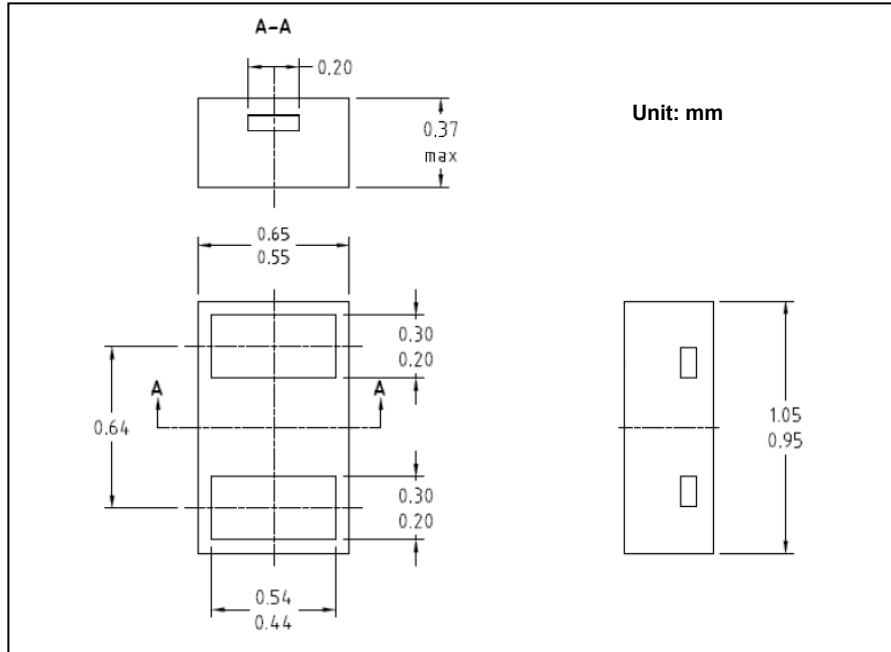
**Fig.3 Pulse Waveform-8/20μs**



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



**Product Dimensions**



**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
SPESP5VD882-2B	SOD-882	C	Tape & Reel	10000pcs / Reel	RoHS compliant