



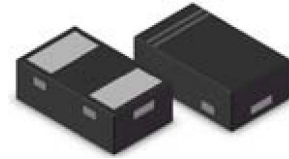
### Feature

- 100 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- Tiny SOD882 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)
- IEC 61000-4-5 (Lightning) 24A (8/20 $\mu s$ )

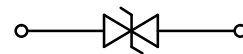
### Application

- Cell Phone
- PDA
- Notebook
- Digital Cameras
- Portable Instrumentation
- Audio and video equipment

### SES5VD882-2B



SOD882



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 ( $t_P = 8/20\mu S$ )	$I_{PP}$	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	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	6	6.8	8	V
Reverse Leakage Current	$I_R$	$V_R=5V$			1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=1A, T_P=8/20\mu S$			10	V
	$V_C$	$I_{PP}=8A, T_P=8/20\mu S$			13	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$		14		pF



### Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

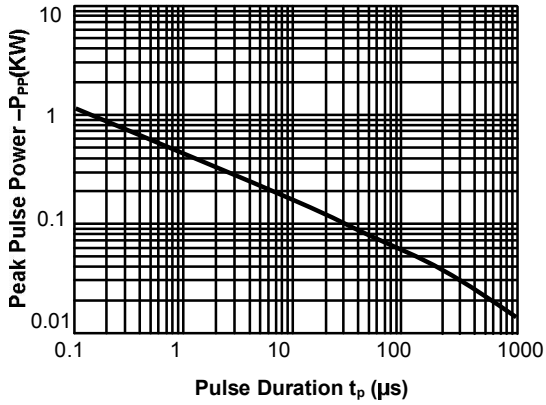


Fig.2 Pulse Derating Curve

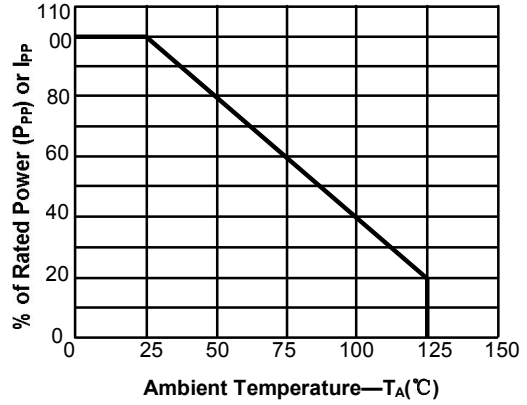


Fig.3 Pulse Waveform-8/20 $\mu$ s

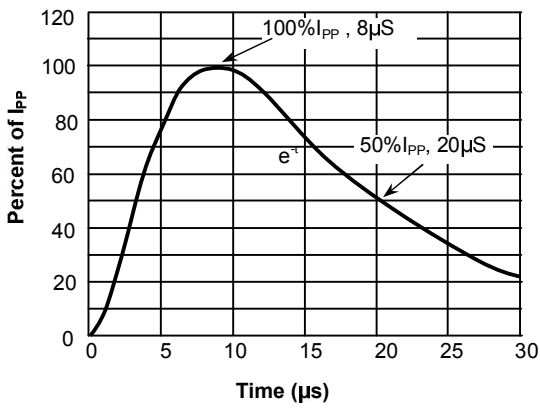
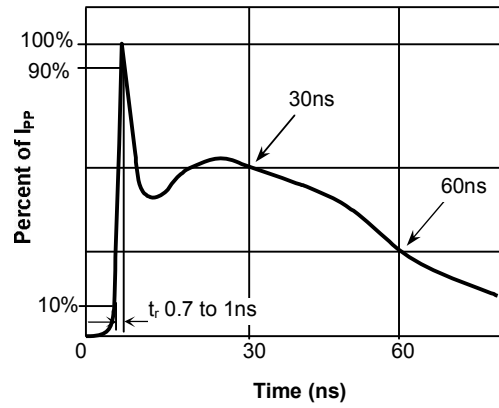
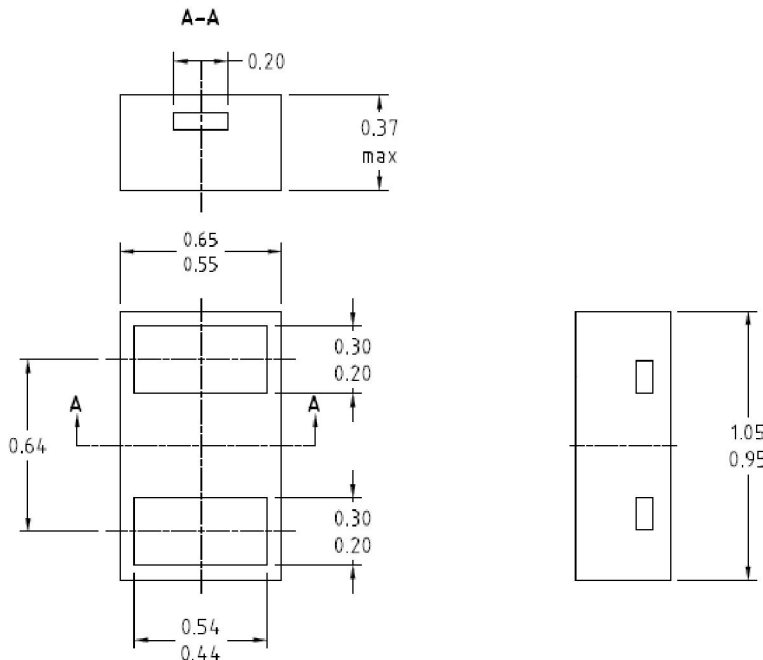


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

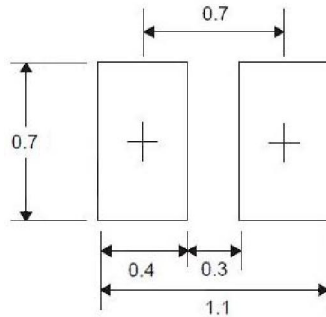


### Product Dimension

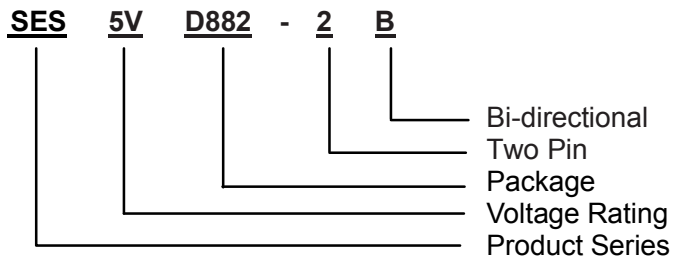




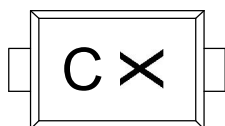
### PAD Dimension



### Part Number System



### Marking



X : DateCode

### Order Information

Device	Package	Net Weight	Carrier	Quantity	HSF Status
SES5VD882-2B	SOD882	0.0006g	Tape & Reel	10000pcs / Reel	RoHS compliant

### Revision history

Date	Revision	Description of changes
27-November-2011	A0	First issue
12-March-2013	A1	Modify