

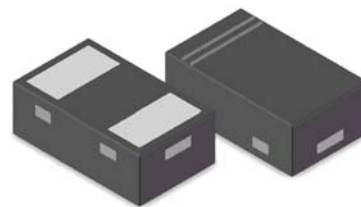
Features

- 174 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 $\pm 30KV$ contact
 $\pm 30KV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)

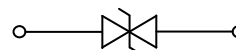
Applications

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

SES5VD882SY-2B



SOD-882



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}	174	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	μA
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

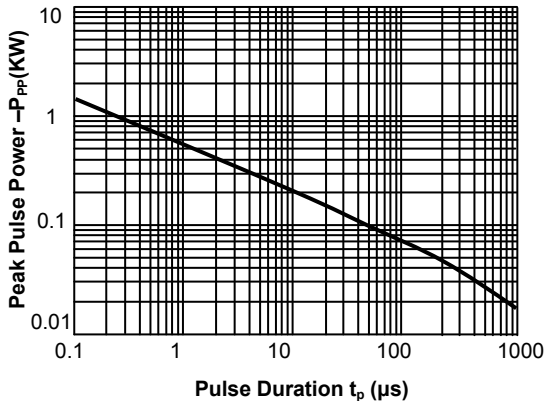


Fig.2 Pulse Derating Curve

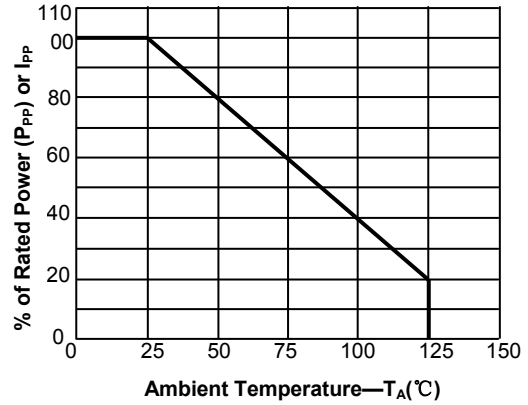


Fig.3 Pulse Waveform-8/20 μs

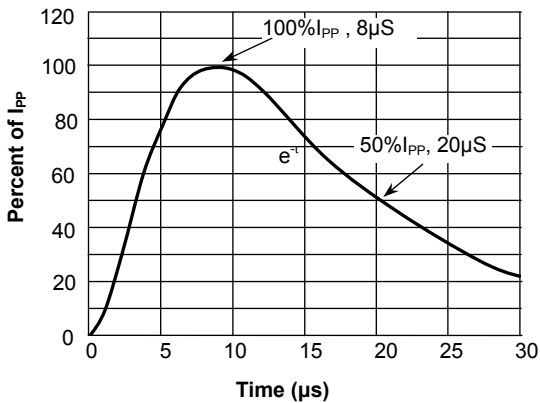
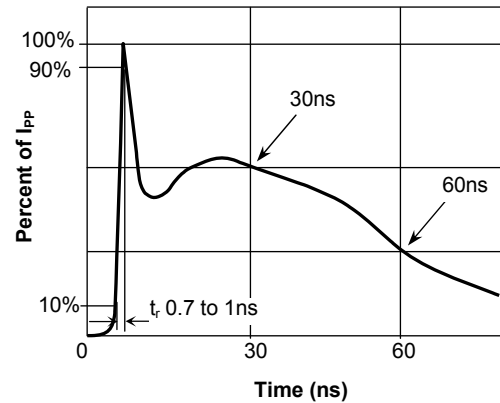
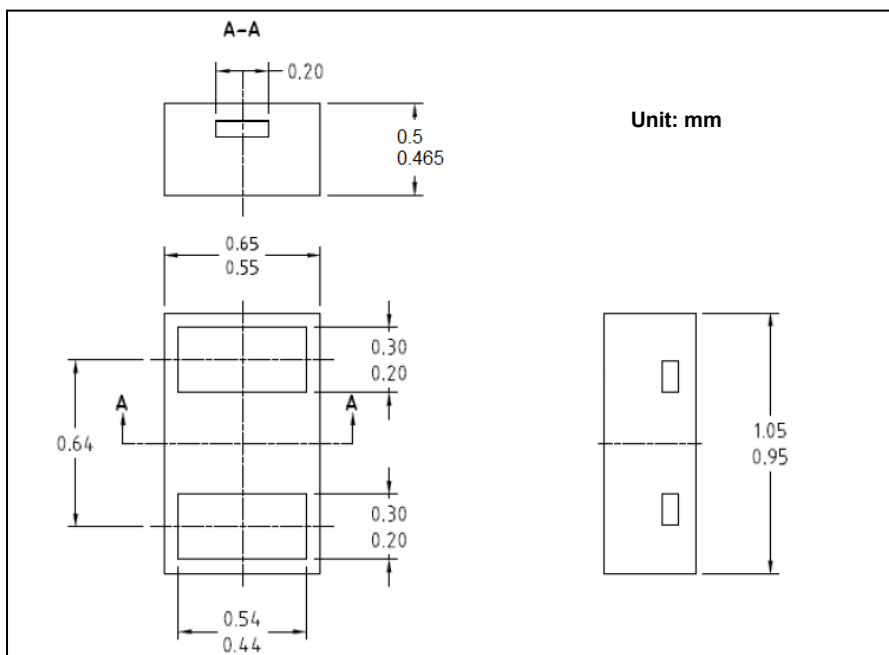


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions



Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
SES5VD882SY-2B	SOD-882	C	Tape & Reel	10000pcs / Reel	RoHS compliant

Revision history


Date	Revision	Description of changes
12-March-2013	A0	First issue

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