

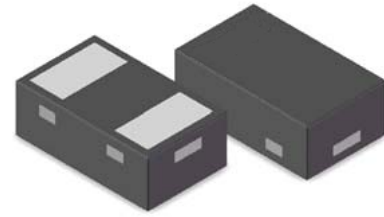
Features

- 60Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-882 Package
- Bidirectional configurations
- R2R + Zener technology
- Low clamping voltage
- Low leakage current
- Ultra low capacitance ($C_j = 0.3pF$ typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 10kV$ contact $\pm 15kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 3A (8/20 μs)
- RoHS compliant

Applications

- USB3.0, Firewire, DVI, HDMI, S-ATA
- Thunderbolt, Display Port
- Mobile HDMI Link, MDDI, MIPI, SWP / NFC

SESUC5VD882SY-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}	60	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	10/15	kV
Peak Pulse Current ($t_p = 8/20\mu s$)	I_{PP}	3	A
Junction Temperature	T_J	-55 to +125	$^\circ C$
Storage temperature	T_{STG}	-55 to +150	$^\circ C$
Maximum Lead Solder Temperature(10 second duration)	T_L	260	$^\circ C$

Electrical Characteristics

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

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1mA$	6.5	8.5		V
Reverse Leakage Current	I_R	$V_R = 5.0V$		5	100	nA
Clamping Voltage (IEC 61000-4-5)	V_C	$I_{PP} = 3A$			20.5	V
Trigger Voltage (IEC 61000-4-2)	V_T	$V_{ESD} = 8kV$		135		V
Clamping Voltage (IEC 61000-4-2)	V_C	$V_{ESD} = 8kV$		20		V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		0.3	0.35	pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

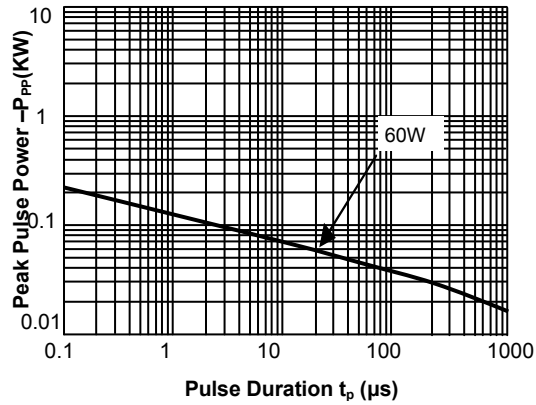


Fig.2 Pulse Derating Curve

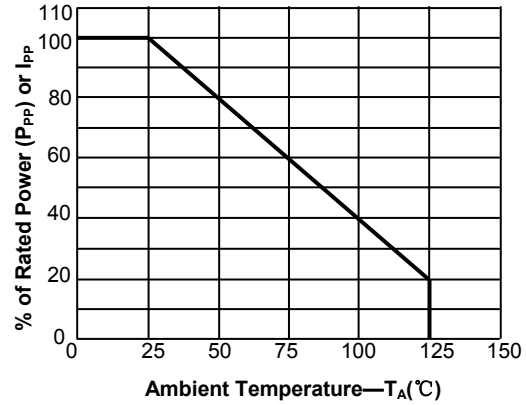


Fig.3 Pulse Waveform-8/20μs

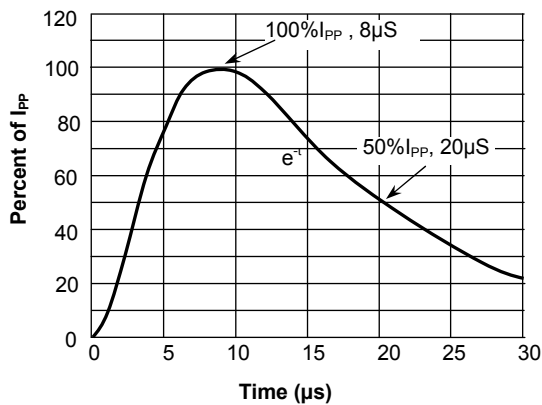


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

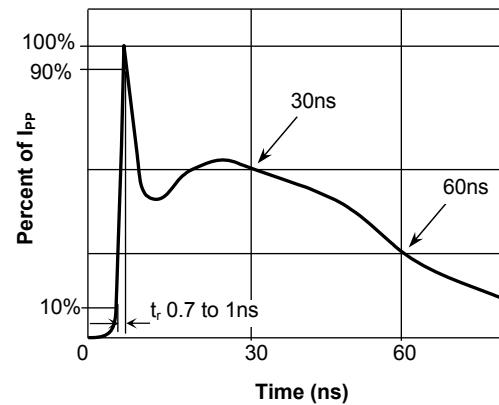


Fig.5 IEC61000-4-2 +8kV Contact Discharge

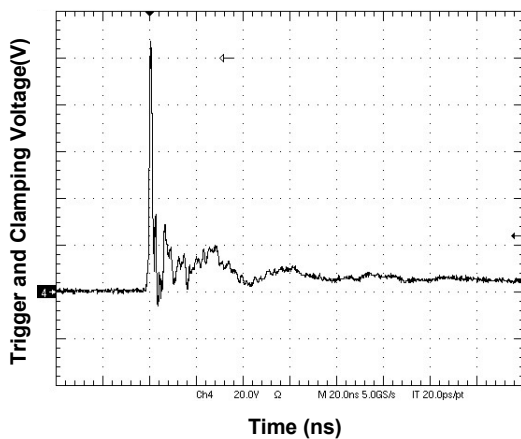
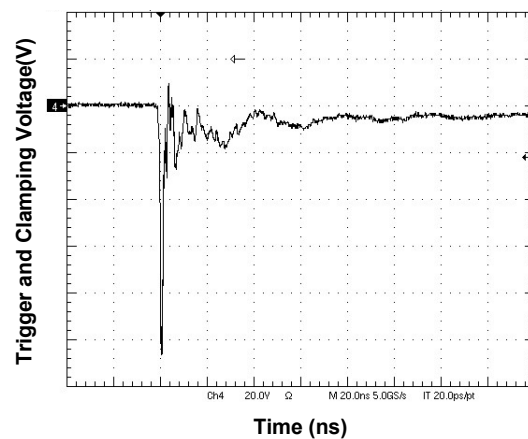
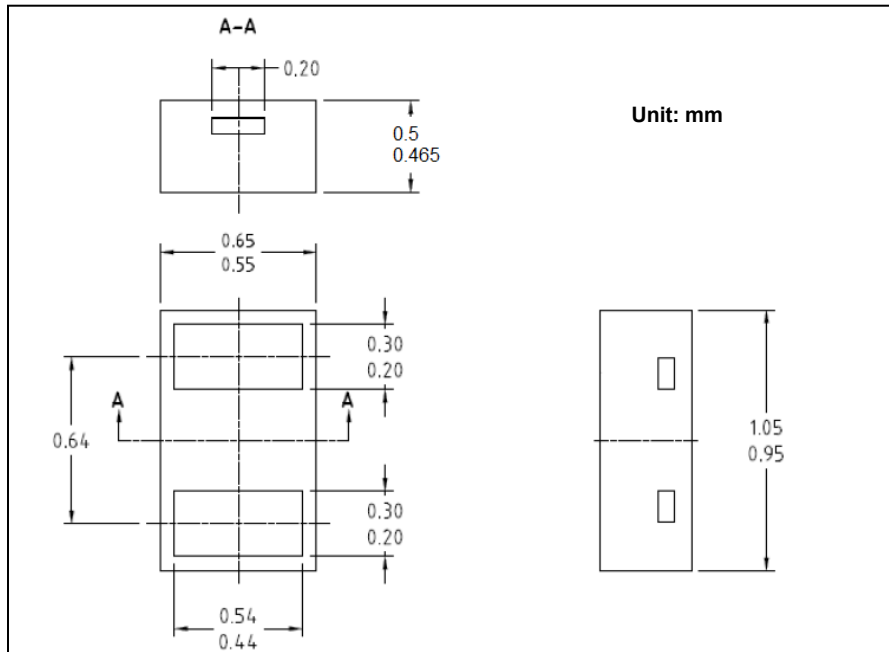


Fig.6 IEC61000-4-2 -8kV Contact Discharge



Product Dimensions



Marking



Order Information

Device	Package	Carrier	Quantity	HSF Status
SESUC5VD882SY-2B	SOD-882	Tape & Reel(7")	10,000pcs/reel	RoHS compliant

Revision history

Date	Revision	Description of changes
22-April-2016	A0	First issue

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