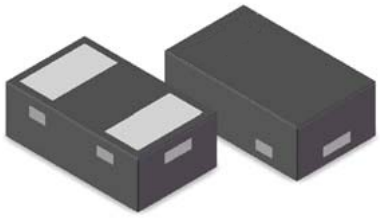
SESUC5VD882SY-2B

Features

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



SOD-882



Schematic Diagram

Applications

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

Absolute Maximum Ratings

(T_A=25℃, Unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power (T_P=8/20μS)	P_{PP}	60	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	10/15	kV
Peak Pulse Current (t_P = 8/20μS)	I_{PP}	3	A
Junction Temperature	T_J	-55 to +125	℃
Storage temperature	T_{STG}	-55 to +150	℃
Maximum Lead Solder Temperature(10 second duration)	T_L	260	℃

Electrical Characteristics

(T_A=25℃, 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

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Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

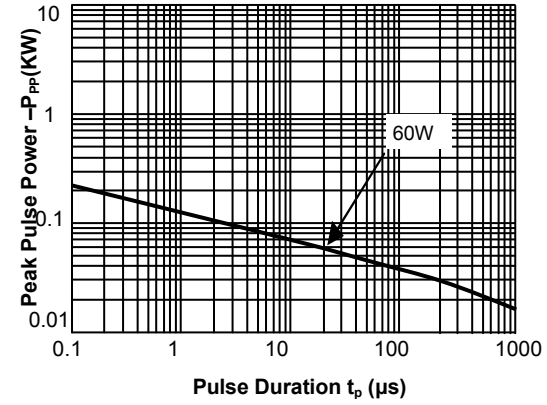


Fig.2 Pulse Derating Curve

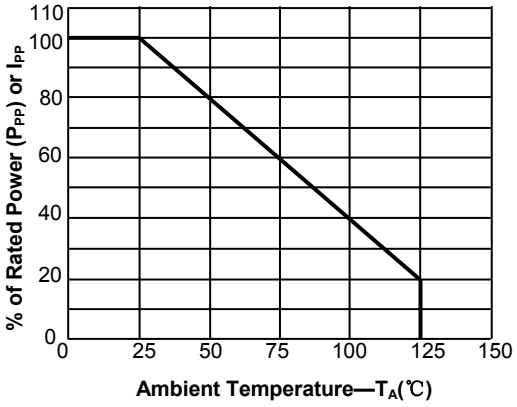


Fig.3 Pulse Waveform-8/20μs

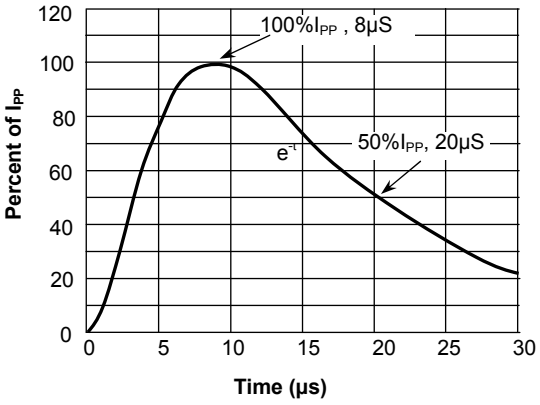


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)

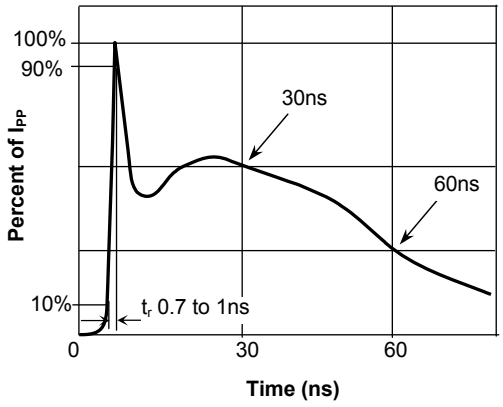


Fig.5 IEC61000-4-2 +8kV Contact Discharge

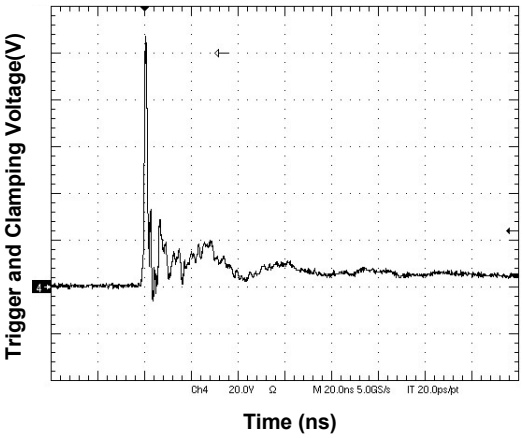
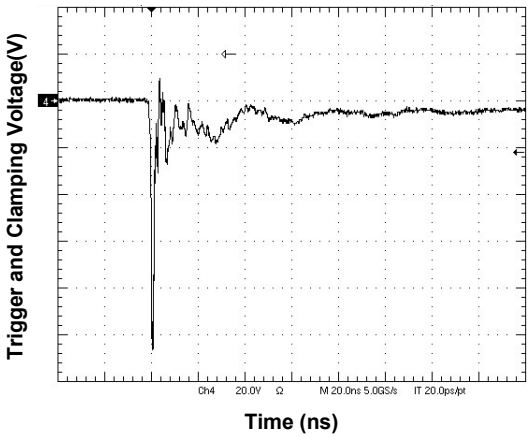
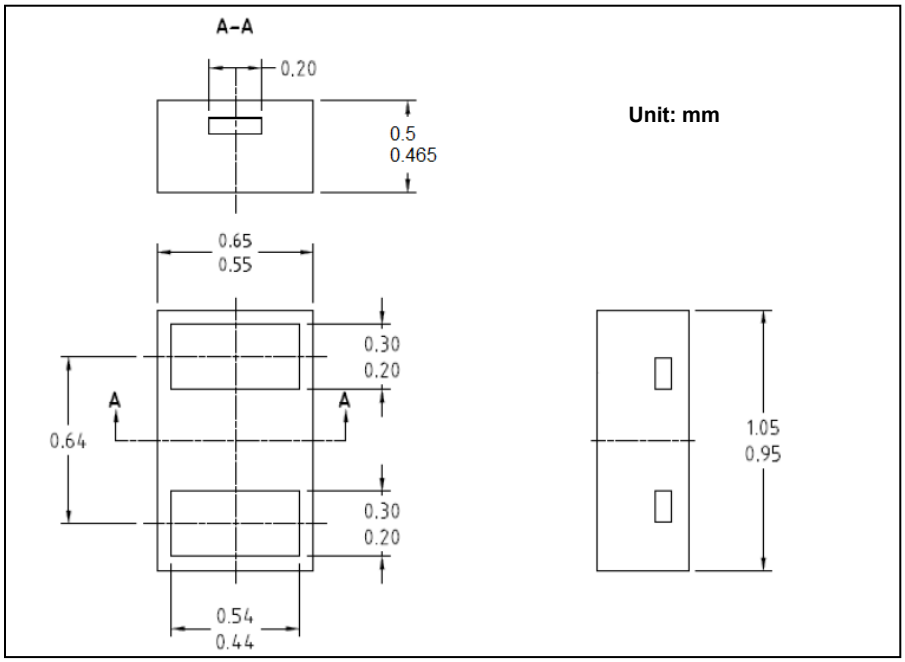


Fig.6 IEC61000-4-2 -8kV Contact Discharge



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Product Dimensions



Marking

P

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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