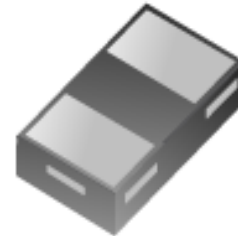


Features

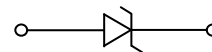
- 50 Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-882 package
- Unidirectional configurations
- Protects one I/O port
- Low clamping voltage and leakage current
- Ultra low capacitance
- ESD-immunity acc. IEC 61000-4-2 $\pm 8KV$ contact
 $\pm 15KV$ air



SOD-882

Applications

- USB 3.0, USB 2.0, MHL
- HDMI 2.0, Display Port 1.3, eSATA
- Ultrabooks, Notebooks
- Smart Phones
- Tablets, eReaders
- High Speed Serial Interfaces



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}	50	W
Peak Pulse Current ($T_P = 8/20\mu s$)	I_{PP}	2.5	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	-	-	V
Reverse Leakage Current	I_R	$V_R = 5V$	-	-	1	μA
Clamping Voltage	V_C	$I_{PP} = 2.5A, T_P = 8/20\mu s$	-	-	18.4	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$	-	0.3	-	pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

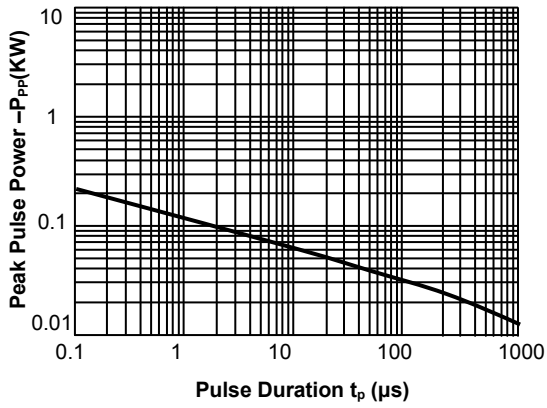


Fig.2 Pulse Derating Curve

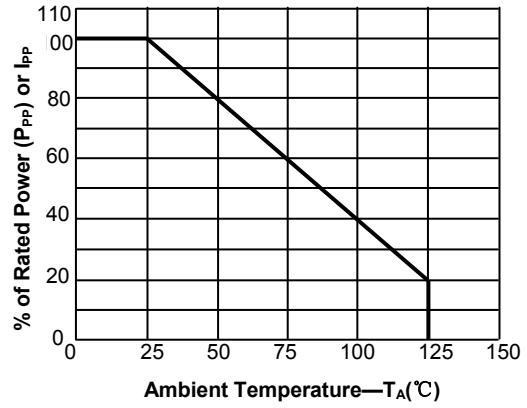


Fig.3 Pulse Waveform-8/20μs

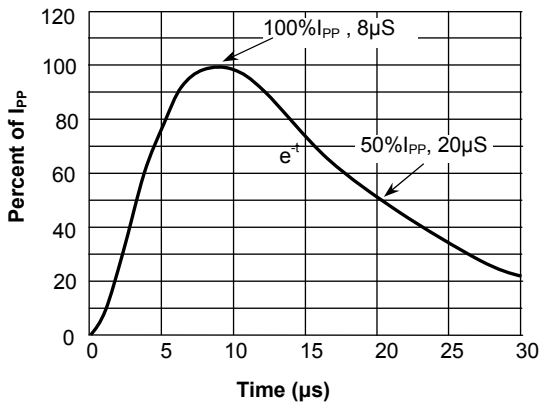
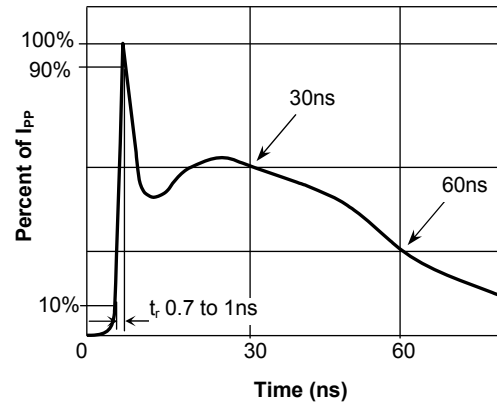
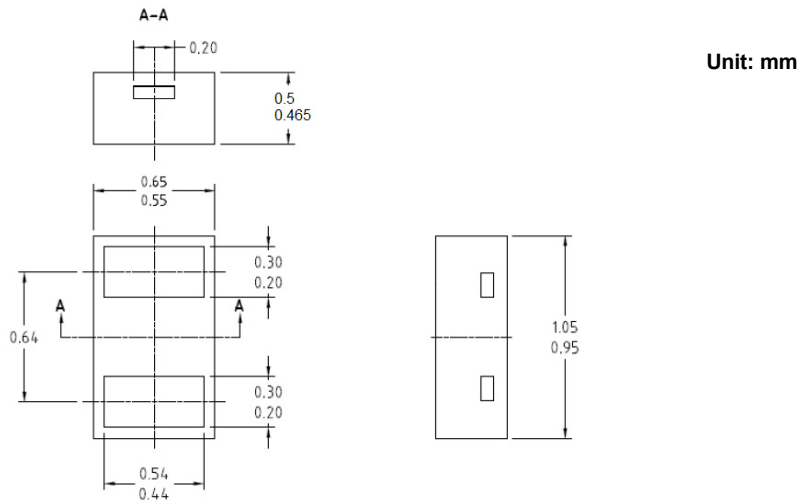


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions SOD-882



Order Information

Device	Package	Carrier	Quantity	HSF Status
SPESPLC5VD882SP-2U	SOD-882	Tape & Reel	10000pcs / Reel	RoHS compliant