

# SESLC5VD882S-2U

## Low Capacitance ESD Protection Diode

### Features

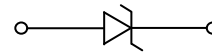
- 50 Watts peak pulse power (tp = 8/20μs)
- SOD-882 package
- Unidirectional configurations
- Protects one I/O port
- Low clamping voltage and leakage current
- Ultra low capacitance
- ESD-immunity acc. IEC 61000-4-2 ±8KV contact  
±15KV air



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<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (T <sub>P</sub> =8/20μS)	P <sub>PP</sub>	50	W
Peak Pulse Current (T <sub>P</sub> = 8/20μS )	I <sub>PP</sub>	2.5	A
Junction Temperature	T <sub>J</sub>	-55 to +125	°C
Storage temperature	T <sub>STG</sub>	-55 to +150	°C

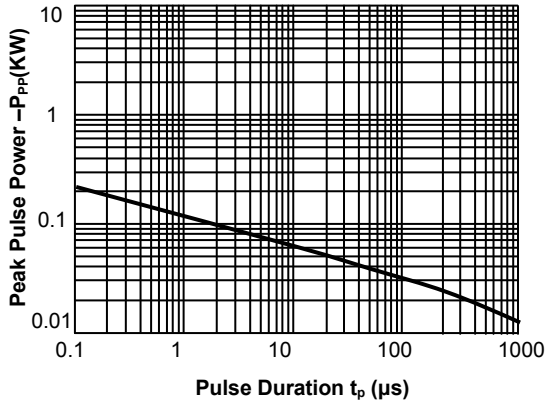
### Electrical Characteristics

(T<sub>A</sub>=25°C unless otherwise specified)

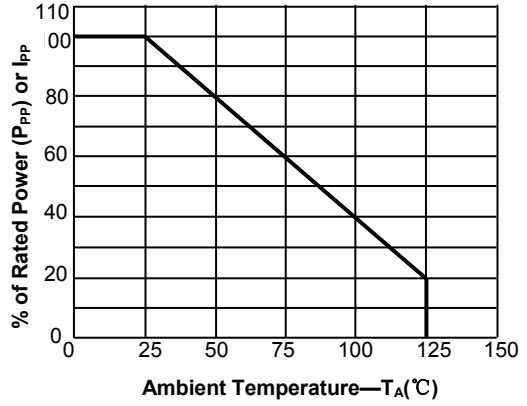
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V <sub>RWM</sub>	-	-	-	5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6	-	-	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	1	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =2.5A, T <sub>P</sub> =8/20μS	-	-	18.4	V
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	0.3	-	pF

**Typical Characteristic Curves**

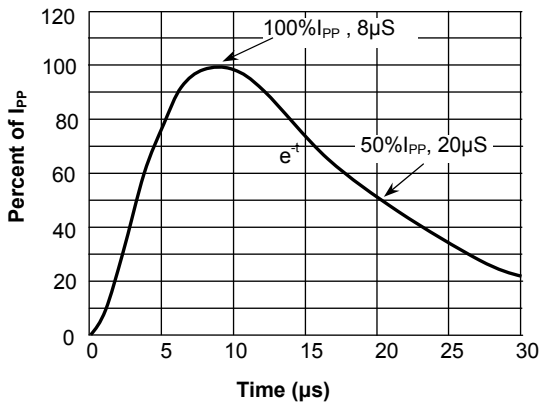
**Fig.1 Peak Pulse Power Rating Curve**



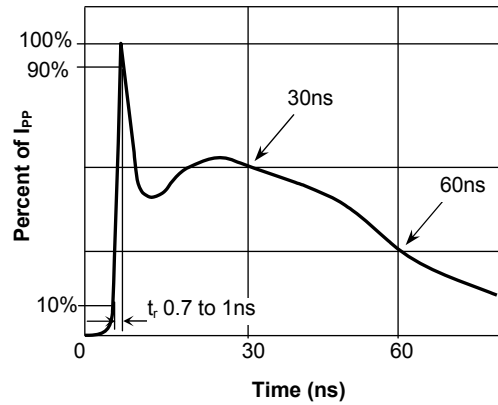
**Fig.2 Pulse Derating Curve**



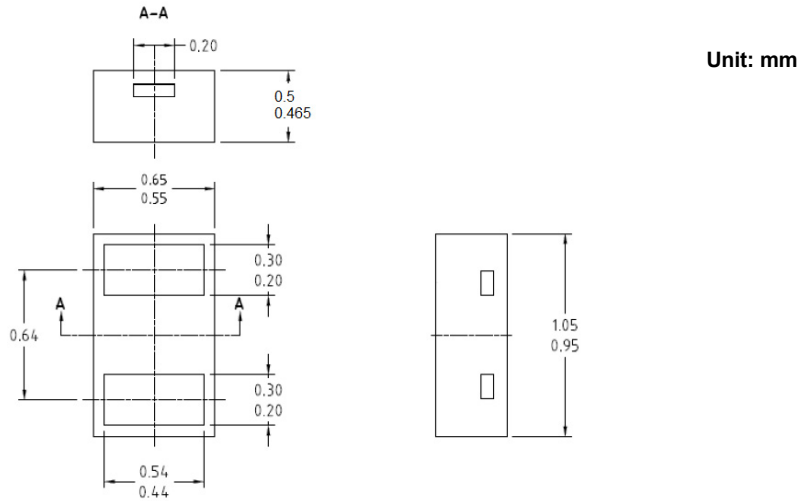
**Fig.3 Pulse Waveform-8/20μs**



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



**Product Dimensions**      SOD-882



**Order Information**

Device	Package	Carrier	Quantity	HSF Status
SESLC5VD882S-2U	SOD-882	Tape & Reel	10000pcs / Reel	RoHS compliant