

Features

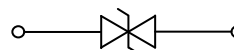
- 174 Watts peak pulse power ($t_p=8/20\mu s$)
- SOD-882 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low leakage current
- ESD-immunity acc. IEC 61000-4-2 $\pm 30KV$ contact
 $\pm 30KV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)



SOD-882

Applications

- Cell phones
- PDA
- Notebook
- Digital cameras
- Portable instruments
- Audio and video equipment



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

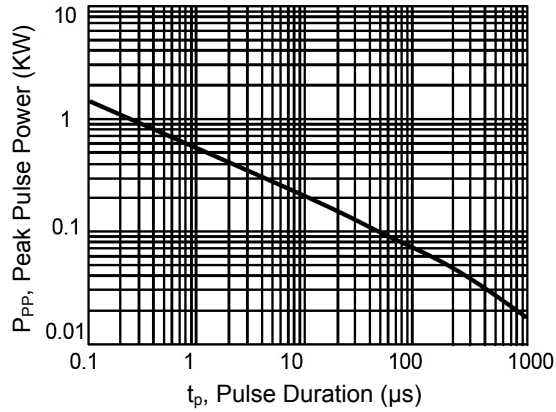


Figure 1. Peak Pulse Power Rating Curve

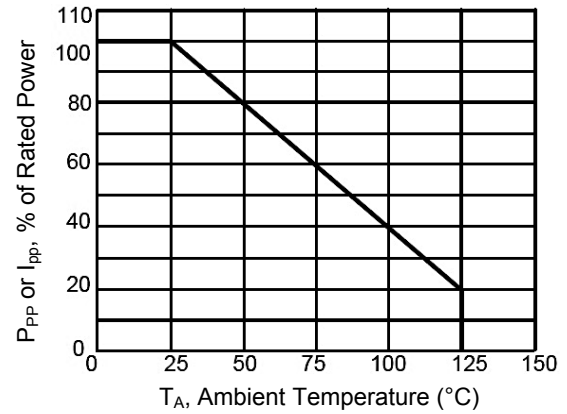


Figure 2. Pulse Derating Curve

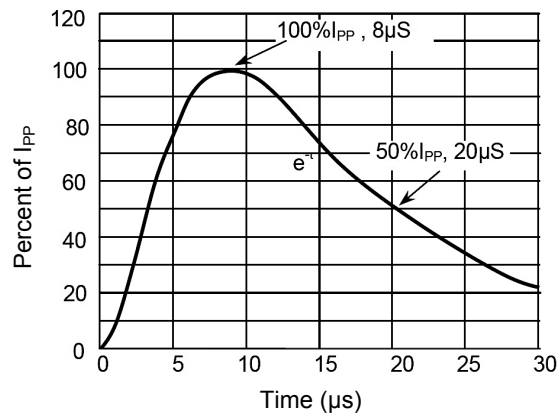


Figure 3. Pulse Waveform-8/20us

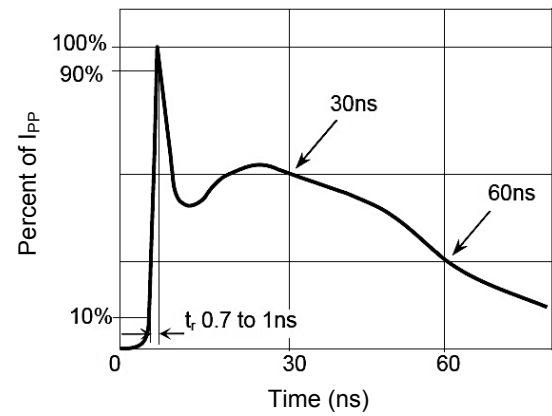
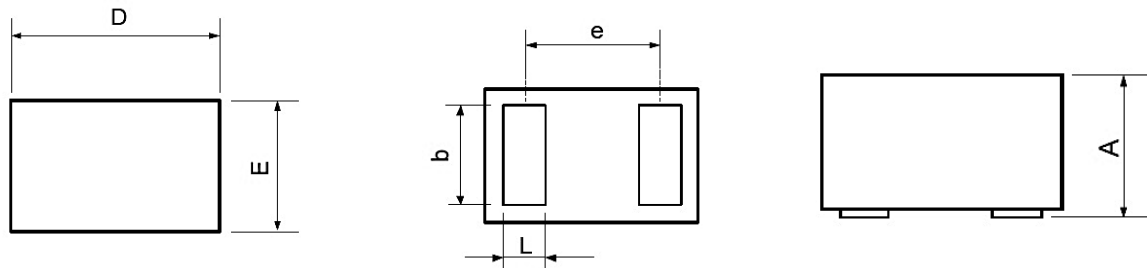


Figure 4. Pulse Waveform-ESD (IEC61000-4-2)

Package Outline Dimensions (SOD-882)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
D	0.95	1.05	0.037	0.041
E	0.55	0.65	0.022	0.026
A	0.45	0.55	0.018	0.022
b	0.45	0.55	0.018	0.022
L	0.20	0.30	0.008	0.012
e	0.65 BSC		0.026 BSC	

Order Information

Device	Package	Marking	Carrier	Quantity
GSEWT5B150	SOD-882	C	Tape & Reel	10,000 Pcs / Reel