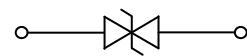


## Features

- 60 Watts peak pulse power ( $t_p = 8/20\mu\text{s}$ )
- Bidirectional configurations
- R2R + Zener technology
- Low clamping voltage
- Low leakage current
- Ultra low capacitance ( $C_J=0.3\text{pF}$  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)



Package: SOD-882



## Applications

Schematic Diagram

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

## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power ( $T_P=8/20\mu\text{s}$ )	$P_{PP}$	60	W
ESD Contact/air Discharge (IEC-61000-4-2)	$V_{ESD}$	10/15	kV
Peak Pulse Current ( $t_p = 8/20\mu\text{s}$ )	$I_{PP}$	3	A
Junction Temperature	$T_J$	-55 to +125	°C
Storage Temperature	$T_{STG}$	-55 to +150	°C
Maximum Lead Solder Temperature(10 second duration)	$T_L$	260	°C

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Stand-off Voltage	$V_{RWM}$	-	-	-	3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1\text{mA}$	5.0	6.5	-	V
Reverse Leakage Current	$I_R$	$V_R=5.0\text{V}$	-	5	100	nA
Clamping Voltage (IEC 61000-4-5)	$V_C$	$I_{PP}=3\text{A}$	-	-	20.5	V
Trigger Voltage (IEC 61000-4-2)	$V_T$	$V_{ESD}=8\text{kV}$	-	135	-	V
Clamping Voltage (IEC 61000-4-2)	$V_C$	$V_{ESD}=8\text{kV}$	-	20	-	V
Junction Capacitance	$C_J$	$V_R=0\text{V}, f=1\text{MHz}$	-	0.3	0.35	pF

### Typical Characteristic Curves

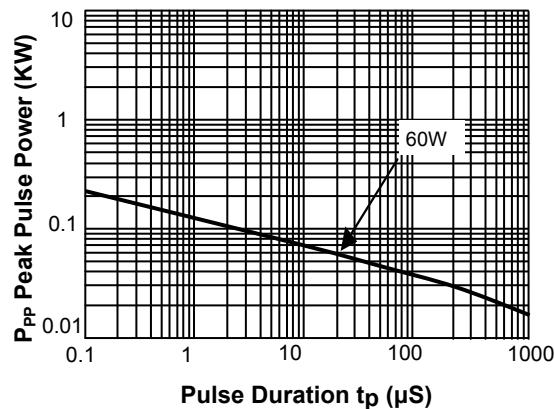


Figure 1. Peak Pulse Power Rating Curve

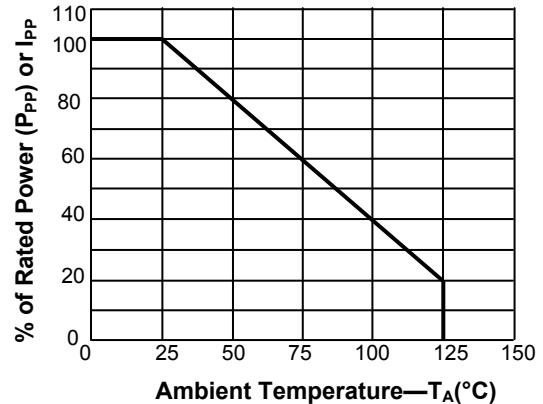


Figure 2. Pulse Derating Curve

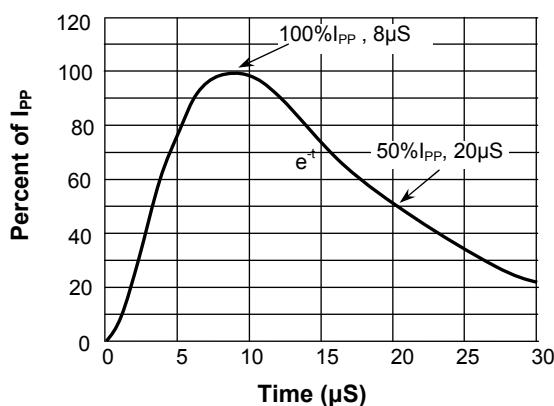


Figure 3. Pulse Waveform-8/20μS

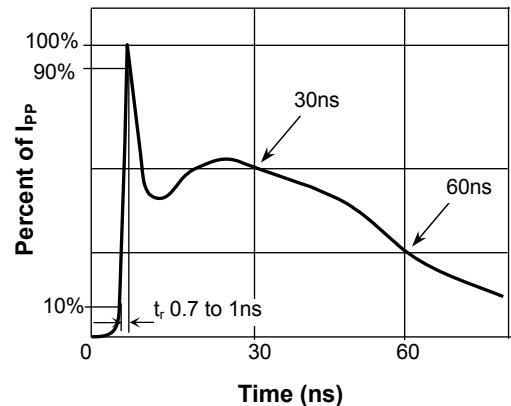


Figure 4. Pulse Waveform-ESD(IEC61000-4-2)

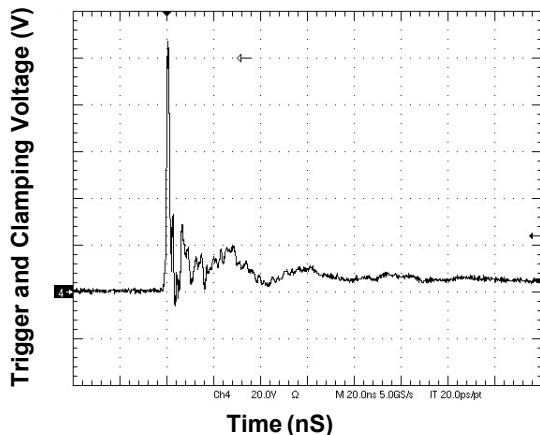


Figure 5. IEC61000-4-2 +8kV Contact Discharge

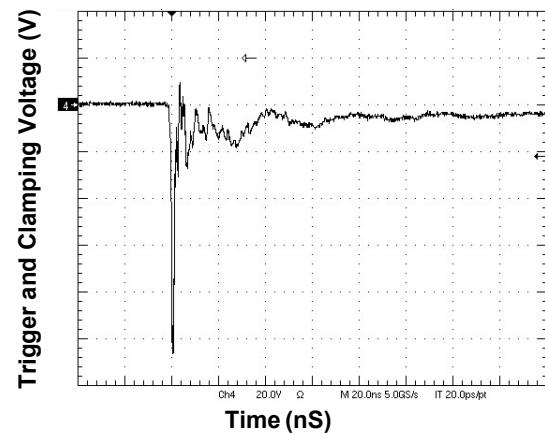
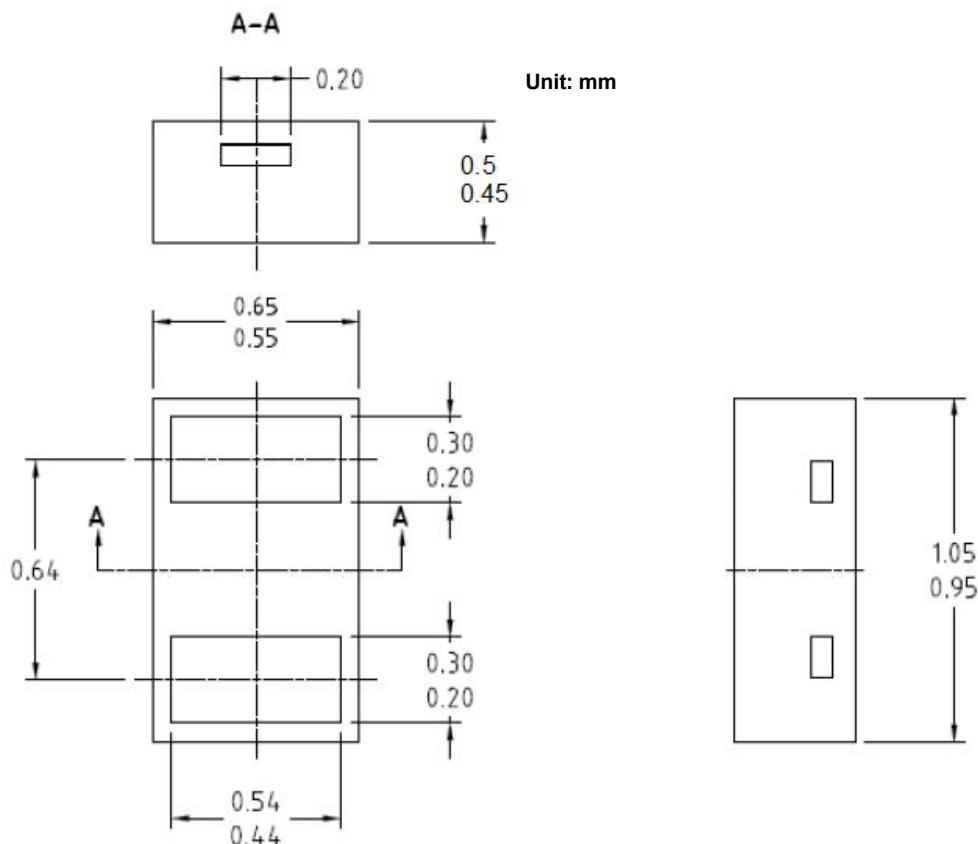


Figure 6. IEC61000-4-2 -8kV Contact Discharge

### Package Outline Dimensions

SOD-882



### Order Information

Device	Package	Marking	Quantity	HSF Status
GSEWT3B003	SOD-882	P	10,000pcs / reel	RoHS Compliant