

Pin Configuration

### Applications

- Cellular phones
- Portable devices
- Digital cameras
- Power supplies

### Features

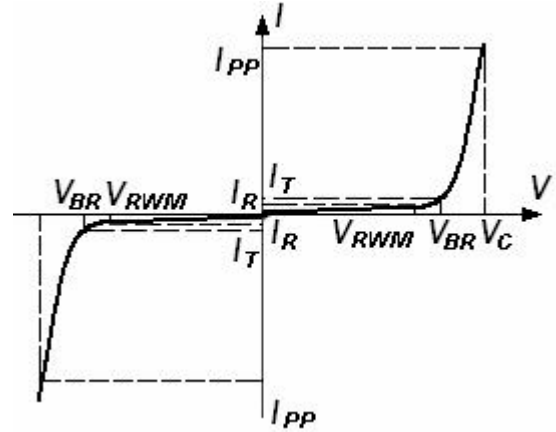
- Small Body Outline Dimensions
- Low Body Height
- Peak Power up to 150 Watts @ 8 x 20  $\mu$ s Pulse
- Low Leakage current
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

### Absolute Ratings ( $T_{amb}=25^{\circ}C$ )

Symbol	Parameter	Value	Units
$P_{PP}$	Peak Pulse Power ( $t_p = 8/20 \mu s$ )	80	W
$T_L$	Maximum lead temperature for soldering during 10s	260	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-55 to +150	$^{\circ}C$
$T_{op}$	Operating Temperature Range	-40 to +125	$^{\circ}C$
$T_j$	Maximum junction temperature	150	$^{\circ}C$
	IEC61000-4-2 (ESD)	air discharge contact discharge	$\pm 25$ $\pm 25$ KV
$I_{PPM}$	IEC61000-4-5 (8/20uS)	8	A
	ESD Voltage	Per Human Body Model	16 KV

**Electrical Parameter**

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$I_T$	Test Current
$V_{BR}$	Breakdown Voltage @ $I_T$

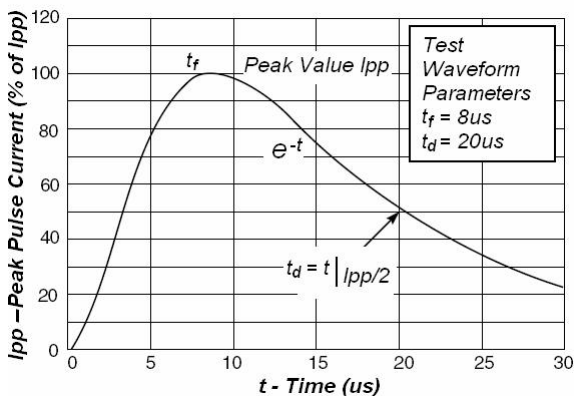


**Electrical Characteristics** Ratings at 25°C ambient temperature unless otherwise specified VF = 0.9V at IF = 10mA

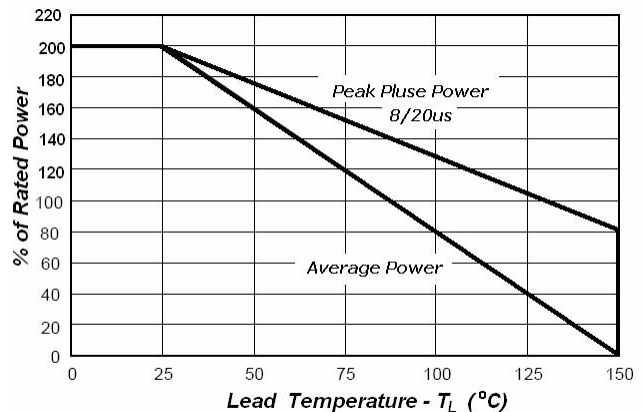
Device	Device Marking	$V_{RWM}$ (V)	$I_{R1}$ (uA) @ $V_{RWM}$	$I_{R2}$ (uA) @ $V_R=3.5V$	$V_{BR}$ (V) @ $I_T$ (Note 1)	$I_T$	$V_C$ (V) @ $I_{PP}=5 A^*$	$V_C$ (V) @ Max $I_{PP}^*$	$I_{PP}$ (A)*	$P_{PK}$ (W)*	$C$ (pF)
		Max	Max	Max	Min	mA	Typ	Max	Max	Max	Typ
ESD8D5V0	PB	5.0	0.5	0.3	5.6	1.0	8.5	10.0	8.0	80	15

\*Surge current waveform per Figure 1.

1.  $V_{BR}$  is measured with a pulse test current  $I_T$  at an ambient temperature of 25°C.



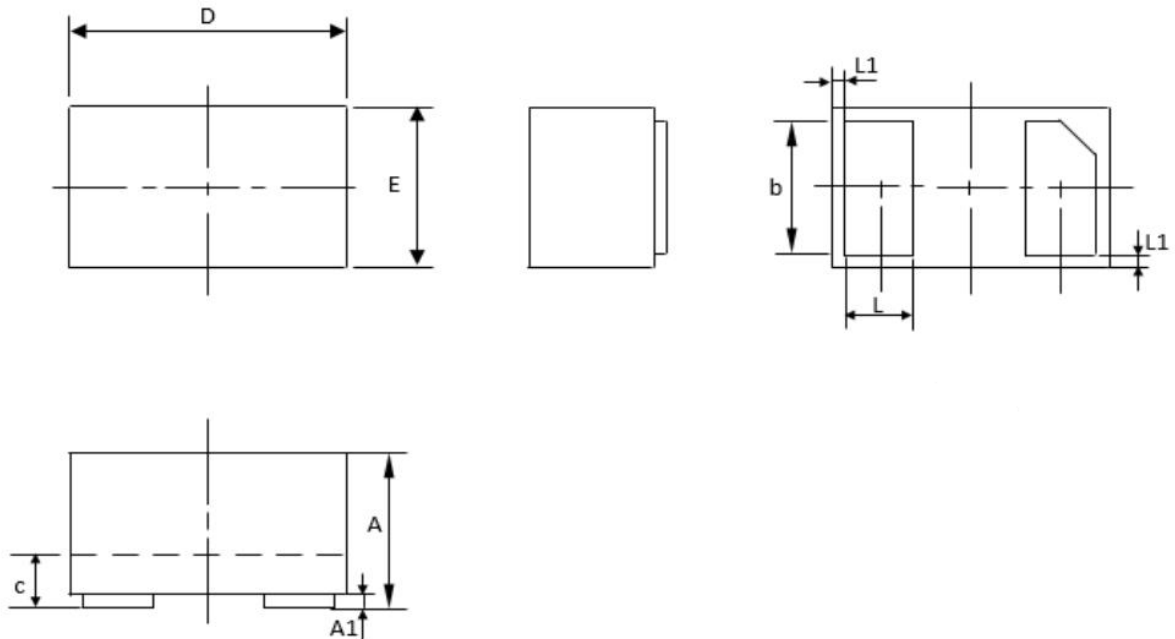
**Fig1. Pulse Waveform**



**Fig2. Power Derating Curve**

OUTLINE AND DIMENSIONS

SOD882



SOD882			
Dim	Min	Typ.	Max
A	0.46	0.48	0.50
A1	0	0.02	0.05
b	0.45	0.5	0.55
c	0.1	0.12	0.14
D	0.95	1.00	1.05
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.035	0.05	0.065
h	0.07	0.12	0.17
崩胶	0	0.06	0.06
All Dimensions in mm			

单击下面可查看定价，库存，交付和生命周期等信息

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