

SOD882 Plastic Package **Transient Voltage Suppressors ESD Protection Diode**

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

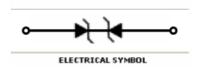
TA = 20 0 difference fiction								
Symbol	Para	Value	Units					
PD	Total Power Dissipa	150	mW					
TL	Max Lead Solder To (10 Second Duratio	260	°C					
T_{stg}	Storage Temperatu	-55 to +150	°C					
T _{OPR}	Max operation Tem	+125	°C					
ESD	IEC61000-4-2	Air Discharge Contact Discharge	±20 ±25	KV				

These ratings are limiting values above which the serviceability of the diode may be impaired.

Green Product



SOD882 Package



Specification Features:

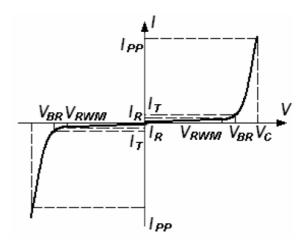
- Capacitance Typ. 15pF
- Small Body Outline Dimensions
- 999999 Low Leakage Current
- ESD Rating of Class 3 (>16kV) per Human Body Model
- **RoHS Compliant**
- Green EMC
- Matte Tin(Sn) Lead Finish

DEVICE MARKING CODES:

Device Type	Marking	Shipping
ESD8D5V0C	С	10,000/Tape & Reel

Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	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 _⊤







Electrical C	naracteris	Stics $(T_A = 25)$	$(T_A = 25^{\circ}C \text{ unless otherwise noted})$				

Device Type	V _{RWM} (Volts)	I _R @ V _{RWM} (μΑ)	(No	V _{BR} @ I _T (Note 1) (Volts) I _T (mA)		I _{PP+} (A)	V _C @ Max I _{PP+} (Volts)	P _{PK+} (W)	$C @$ $\mathbf{V}_{R} = 0V, f = 1MHz$ (pF)
	Max	Max	Min	Max		Max	Max	Max	Тур.
ESD8D5V0C	5.0	0.5	5.6		1.0	5	12	60	15

+ Surge current waveform per Figure 1. Note 1: V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.

SURGE CURRENT WAVEFORM:

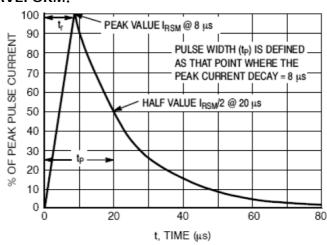
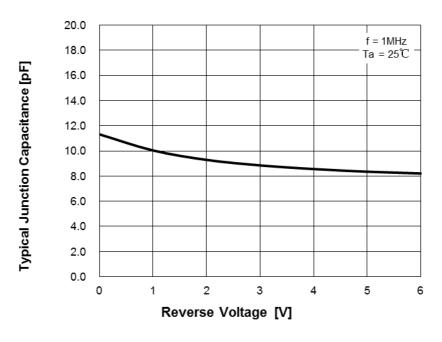


Figure 1. 8 x 20 µs Pulse Waveform

CAPACITANCE CURVE:

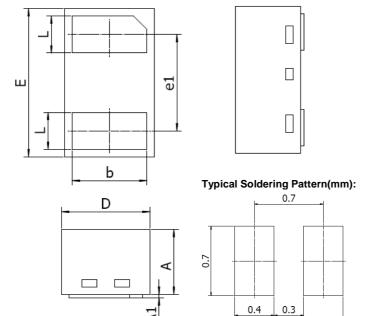


Number: DB-309 July 2018, Revision A





SOD882 Package Outline



1.1

DIM	MILLIM	ETERS	INCHES		
DIM	MIN MAX		MIN	MAX	
Α	0.46	0.50	0.018	0.020	
A1		0.03		0.001	
b	0.45	0.55	0.018	0.022	
D	0.55	0.65	0.022	0.026	
E	0.95	1.05	0.037	0.041	
e1	Тур. 0.65		Тур. 0.026		
L	0.20	0.30	0.008	0.012	





NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

This publication supersedes & replaces all information reviously supplied. For additional information, please visit our website http://www.takcheong.com, or consult your nearest Tak Cheong's sales office for further assistance.

Number: DB-100 April 14, 2008 / A