

CFTVS5V0LC

**SURFACE MOUNT SILICON
TRANSIENT VOLTAGE SUPPRESSOR**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFTVS5V0LC is an ultra low capacitance, low leakage, fast response TVS in the space saving SOD-882L surface mount package. This device is designed to protect sensitive equipment connected to high speed data lines against ESD damage.

MARKING CODE: 5

APPLICATIONS:

- High speed data line protection
- User interface protection
- Charging/power port protection

FEATURES:

- Space saving SOD-882L package
- Ultra low capacitance
- Low leakage current

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Peak Power Dissipation (8x20 μs)
 ESD Voltage (IEC 61000-4-2, Air)
 ESD Voltage (IEC 61000-4-2, Contact)
 Operating Junction Temperature
 Storage Temperature

SYMBOL

P_{PK} 12
 V_{ESD} 15
 V_{ESD} 10
 T_J -55 to +125
 T_{stg} -55 to +150

UNITS

W
 kV
 kV
 $^\circ\text{C}$
 $^\circ\text{C}$

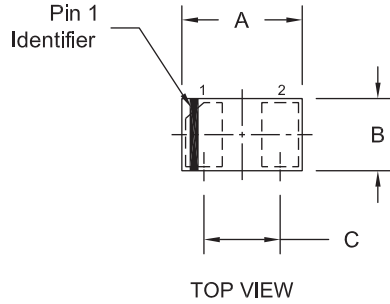
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=10\text{mA}$

Maximum Reverse Stand-off Voltage V_{RWM}	Minimum Breakdown Voltage $V_{BR @ I_T}$	Test Current I_T	Maximum Reverse Leakage Current $I_R @ V_{RWM}$	Maximum Clamping Voltage $V_C @ I_{PP}$	Peak Pulse Current I_{PP}	Maximum Junction Capacitance @ 0V Bias C_J
V	V	mA	μA	V	A	pF
5.0	6.0	1.0	1.0	12	1.0	0.9

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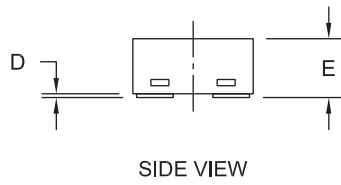


SOD-882L CASE - MECHANICAL OUTLINE



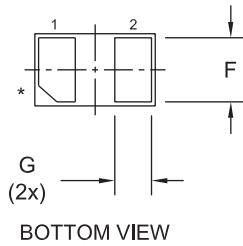
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.041	0.95	1.05
B	0.022	0.026	0.55	0.65
C	0.026		0.65	
D	0.000	0.002	0.00	0.05
E	0.012	0.016	0.30	0.40
F	0.018	0.022	0.45	0.55
G	0.008	0.012	0.20	0.30

SOD-882L (REV:R2)



LEAD CODE:
 1) Cathode
 2) Anode

MARKING CODE: 5



* Pin 1 chamfer may appear on any corner.

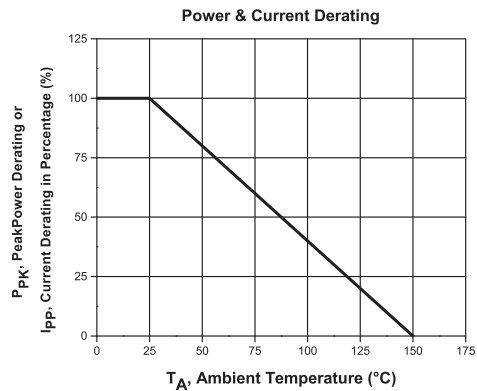
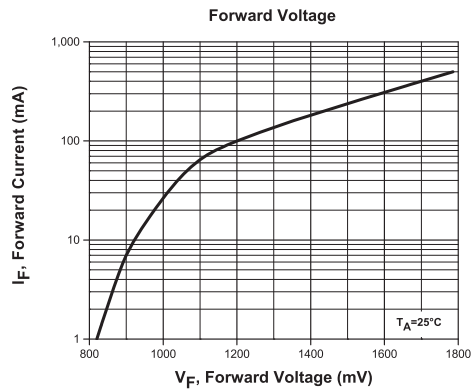
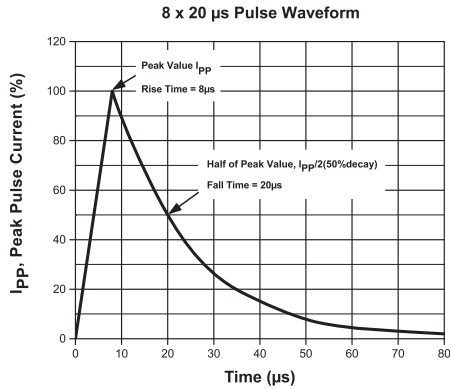
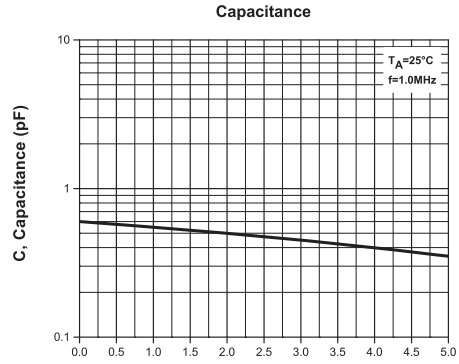
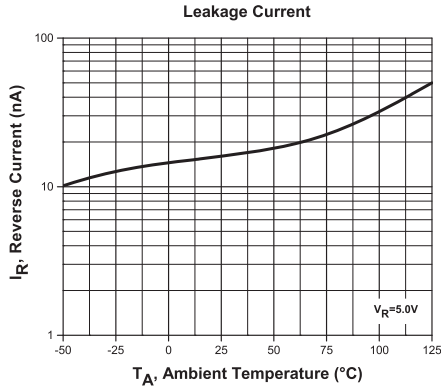
R2

R2 (2-April 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



R2 (2-April 2015)

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SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R2 (2-April 2015)