

SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



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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°C)	SYMBOL		UNITS
Peak Power Dissipation (8x20µs)	P_{PK}	12	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	Α
ESD Voltage (IEC 61000-4-2, Air)	V_{ESD}	15	kV
ESD Voltage (IEC 61000-4-2, Contact)	V_{ESD}	10	kV
Operating Junction Temperature	T_J	-55 to +125	°C
Storage Temperature	T _{stg}	-55 to +150	°C

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

Maximum Reverse Stand-off Voltage VRWM	Minimum Breakdown Voltage VBR @ IT	Test Current	Maximum Reverse Leakage Current I _R @ V _{RWM}	Clam Volt (8x2	mum nping tage 0µs) ② Ipp	TLP Cla	ical amping age te 1)	Typical Dynamic Resistance (Note 1) RDYN	Maximum Junction Capacitance @ 0V Bias CJ
V	V	mA	μΑ	V	Α	V	Α	Ω	pF
5.0	6.0	1.0	1.0	12	1.0	5.0	4.0	0.96	0.9
5.0 6.0	1.0	12 1.0	1.0	10	9.2	0.90	0.9		

Note 1: Transmission Line Pulse (TLP) conditions: Z_0 =50 Ω , tp=100ns

CFTVS5V0LC

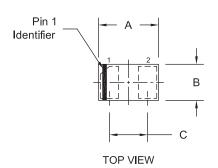
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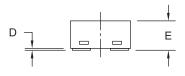


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SOD-882L CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	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)					

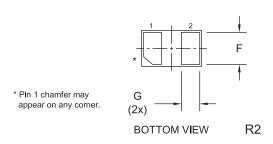


SIDE VIEW

LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: 5



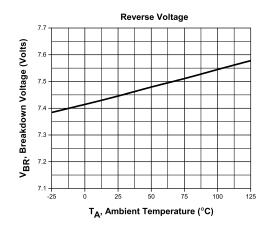


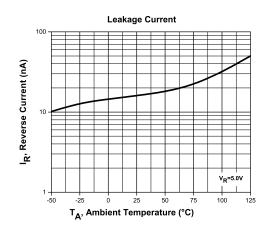
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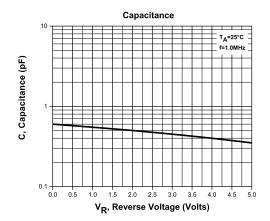


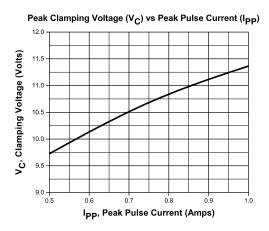
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TYPICAL ELECTRICAL CHARACTERISTICS









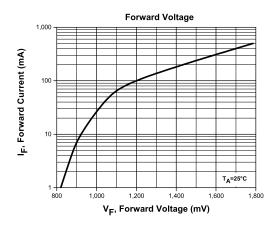


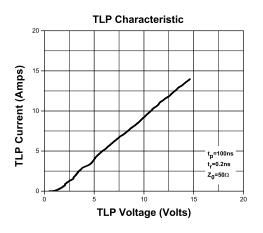
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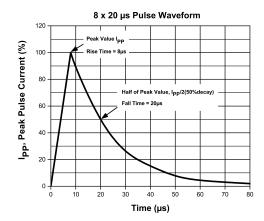


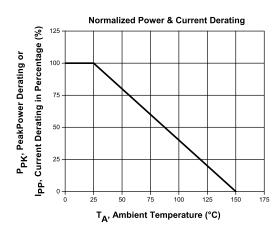
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TYPICAL ELECTRICAL CHARACTERISTICS









OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- · Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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