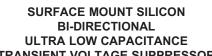


SURFACE MOUNT SILICON **BI-DIRECTIONAL ULTRA LOW CAPACITANCE** TRANSIENT VOLTAGE SUPPRESSOR









SOD-882L CASE

Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CFTVS5V0BULC is an ultra low capacitance, low leakage, fast response, bi-directional 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: U

FEATURES:

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

APPLICATIONS:

- · High speed data line protection ideal for USB 3.1, Thunderbolt and HDMI 2.0 standards
- User interface protection
- Charging/power port protection

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Power Dissipation (8x20µs)	P_{PK}	14	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	Α
ESD Voltage (IEC 61000-4-2, Air)	V_{ESD}	20	kV
ESD Voltage (IEC 61000-4-2, Contact)	V_{ESD}	20	kV
Operating Junction Temperature	T_J	-55 to +125	°C
Storage Temperature	T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

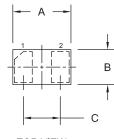
Maximu Revers Stand-o Voltag V _{RWM}	se off e	Volt	down tage @ ^I T	Test Current	Maximum Reverse Leakage Current I _R @ V _{RWM}	Maximum Clamping Voltage V _C @ I _{PP}	Peak Pulse Current (8x20µs) IPP	Typical Junction Capacitance @ 0V Bias CJ	Maximum Junction Capacitance @ 0V Bias CJ
V		MIN V	MAX V	mA	nA	V	Α	pF	pF
5.0		6.0	10	1.0	100	14	1.0	0.2	0.35



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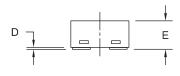
SOD-882L CASE - MECHANICAL OUTLINE



TO	ч	V	Iヒ۱	/V

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 9931 (DE)(-D3)					

SOD-882L (REV:R2)



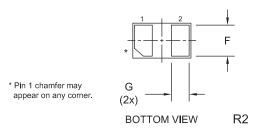
SIDE VIEW



LEAD CODE:

- 1) Anode 1
- 2) Anode 2

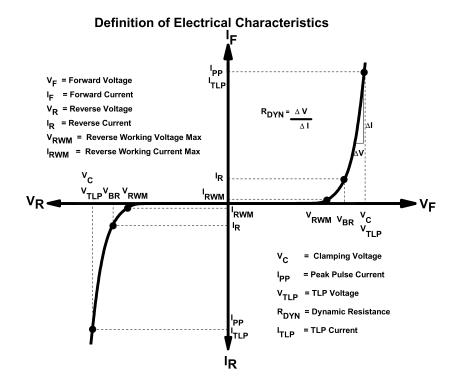
MARKING CODE: U







SURFACE MOUNT SILICON BI-DIRECTIONAL ULTRA LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR



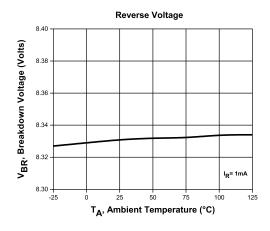
TRANSIENT VOLTAGE SUPPRESSOR

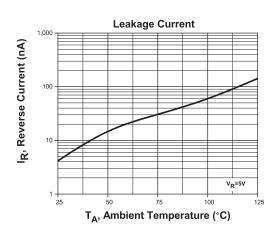


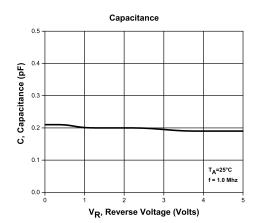
SURFACE MOUNT SILICON BI-DIRECTIONAL ULTRA LOW CAPACITANCE

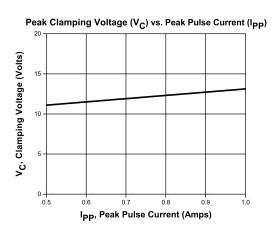


TYPICAL ELECTRICAL CHARACTERISTICS







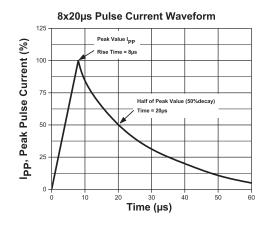


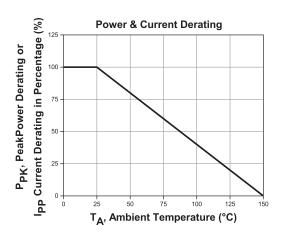


SURFACE MOUNT SILICON
BI-DIRECTIONAL
ULTRA LOW CAPACITANCE
TRANSIENT VOLTAGE SUPPRESSOR



TYPICAL ELECTRICAL CHARACTERISTICS







SURFACE MOUNT SILICON BI-DIRECTIONAL ULTRA LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR



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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R4 (22-June 2015)