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SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLTVS12 is a low leakage, fast response TVS packaged in an ultra small, ultra low profile surface mount package. This device is designed to protect sensitive equipment against ESD damage.

MARKING CODE: 0



APPLICATIONS:

- PDAs
- Memory Card Ports
- Cellular Phones
- Instrumentation

FEATURES:

- Ultra Small, Ultra Low Profile 0.3mm x 0.6mm x 0.3mm Leadless Surface Mount package
- Low Capacitance
- Low Leakage Current

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Power Dissipation (8x20µs)	P_{PK}	35	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	Α
ESD Voltage (IEC 61000-4-2, Air)	V_{ESD}	30	kV
ESD Voltage (IEC 61000-4-2, Contact)	V_{ESD}	30	kV
Operating and Storage Junction Temperature	T _J , T _{stq}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (TA=25°C) VF=1.0V MAX @ IF=10mA

Maximum Reverse Stand-off Voltage		eakdo /oltage		Test Current	Maximum Reverse Leakage Current	Maximum Typical Clamping TLP Clamping Voltage (8x20µs) (Note 1)		Typical Dynamic Resistance (Note 1)	Typical Junction Capacitance @ 0V Bias	Typical Junction Capacitance @ 9V Bias		
V _{RWM}	VI	BR @	lΤ	ΙΤ	I _R @ V _{RWM}	V _C @) IPP	V _{CL} @ I _{PP}		R _{DYN}	CJ	CJ
V	MIN V	NOM V	MAX V	mA	μΑ	٧	Α	v	Α	Ω	pF	pF
0.0	40	40		F 0	4.0	40	4.0	6.0	6.0	0.74	44	5.0
9.0 1	10	12 14	5.0	1.0	18	1.8	11	13	0.71	14	5.0	

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

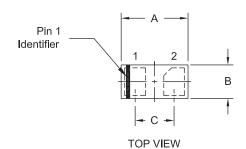
CTLTVS12

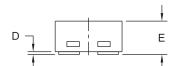
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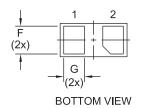
TLM2D3D6 CASE - MECHANICAL OUTLINE





SIDE VIEW

R2



DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.022	0.026	0.55	0.65		
В	0.010	0.014	0.25	0.35		
С	0.0	14	0.35			
D	0.000	0.002	0.00	0.05		
E	0.011	0.013	0.28	0.32		
F	0.008	0.012	0.20	0.30		
G	0.005	0.009	0.13	0.24		
TI MODODO (DEV. DO)						

TLM2D3D6 (REV: R2)

LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: O

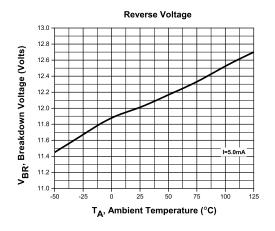


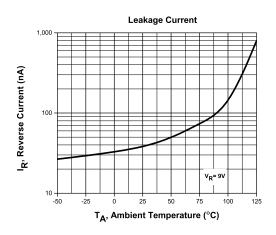
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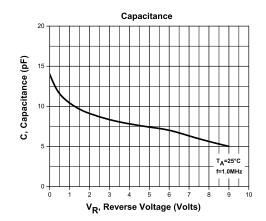


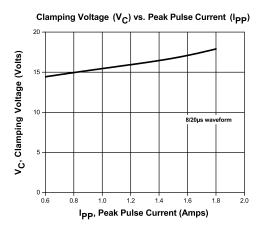
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TYPICAL ELECTRICAL CHARACTERISTICS









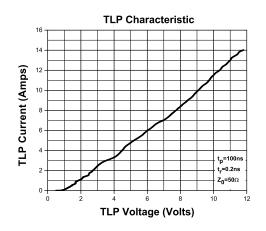


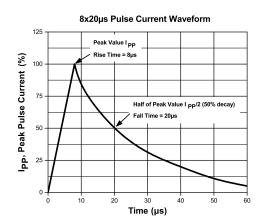
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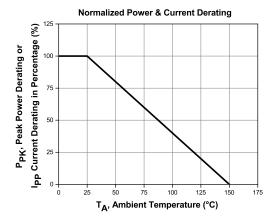


SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR

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 quick 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

CONTACT US

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