imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR



APPLICATIONS:

- User interface protection
- Voltage rail protection
- Data line protection
- Voltage clamping



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CTLTVS6V2 is a low leakage, fast response silicon TVS packaged in an ultra small, ultra low profile TLM2D3D6 surface mount case. This device is designed to protect sensitive equipment against ESD damage.

MARKING CODE: S

FEATURES:

- Ultra small, ultra low profile 0.3mm x 0.6mm x 0.3mm leadless surface mount package
- High peak pulse current capability
- Low leakage current

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Power Dissipation (8x20µs)	PPK	35	W
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	А
ESD Voltage (IEC 61000-4-2, Air)	V _{ESD}	15	kV
ESD Voltage (IEC 61000-4-2, Contact)	VESD	8.0	kV
Operating and Storage Junction Temperature	TJ, T _{sta}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C) V_F=1.0V MAX @ I_F=10mA

Maximum Reverse Stand-off Voltage VRWM		eakdov Voltage BR @	9	Test Current Іт	Maximum Reverse Leakage Current IR @ VRWM	Maximum Typical Clamping TLP Clamp Voltage Voltage (8x20µs) (Note 1) VC IPP		amping tage te 1)	Typical Dynamic Resistance (Note 1) RDYN	Typical Junction Capacitance @ 0V Bias CJ	
v	MIN V	NOM V	MAX V	mA	μΑ	v	A	v	A	Ω	pF
4.0	5.0	6.0	6.6	5.0	1.0	10.7	2.0	7.0	1.5	0.54	25
4.0	5.8 6.2 6.6 5	5.0	5.0 1.0	10.7 3.0	3.0	10 7.0	7.0	- 0.54	20		

Note 1: Transmission Line Pulse (TLP) conditions: Z₀=50Ω, tp=100ns

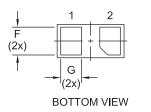
R3 (26-October 2015)





SURFACE MOUNT SILICON UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR

SIDE VIEW



R2

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A	0.022	0.026	0.55	0.65	
В	0.010	0.014	0.25	0.35	
С	0.014		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	
TLM2D3D6 (REV: R2)					

LEAD CODE:

1) Cathode 2) Anode

TLM2D3D6 CASE - MECHANICAL OUTLINE

z) Anode

MARKING CODE: S

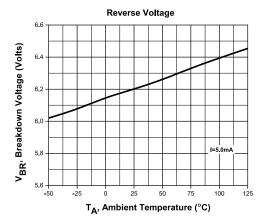
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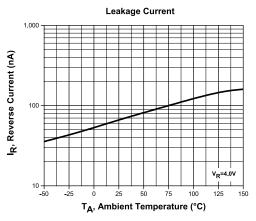
R3 (26-October 2015)

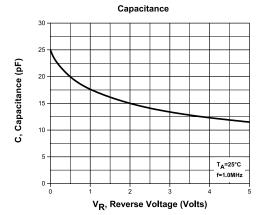


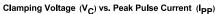


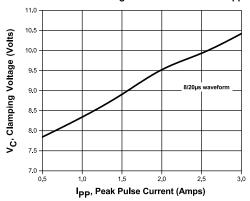
TYPICAL ELECTRICAL CHARACTERISTICS











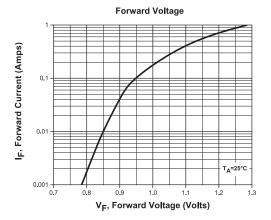
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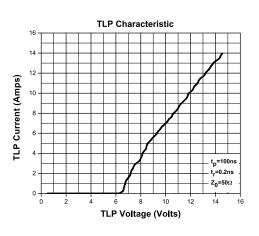
R3 (26-October 2015)

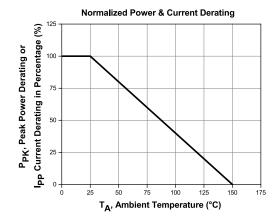




TYPICAL ELECTRICAL CHARACTERISTICS







8x20µs Pulse Current Waveform 125 Peak Value I PP Rise Time = 8µs Ipp, Peak Pulse Current (%) 100 75 Half of Peak Value I PP/2 (50% decay) Fall Time = 20µs 50 -25 0 -10 20 40 50 ò 30 60 Time (µs)

R3 (26-October 2015)

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

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