

**CTLTVS6V2**  
**SURFACE MOUNT SILICON  
TRANSIENT VOLTAGE SUPPRESSOR**



[www.centrasemi.com](http://www.centrasemi.com)



**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**

**APPLICATIONS:**

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

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

Peak Power Dissipation (8x20 $\mu\text{s}$ )  
ESD Voltage (IEC 61000-4-2, Air)  
ESD Voltage (IEC 61000-4-2, Contact)  
Operating and Storage Junction Temperature

**SYMBOL**

$P_{PK}$   
 $V_{ESD}$   
 $V_{ESD}$   
 $T_J, T_{stg}$

**UNITS**

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

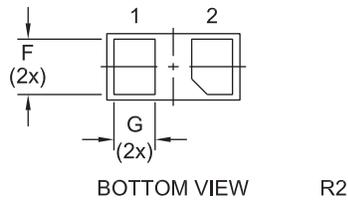
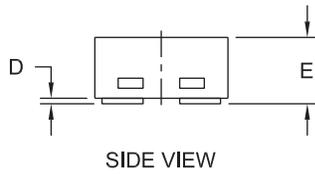
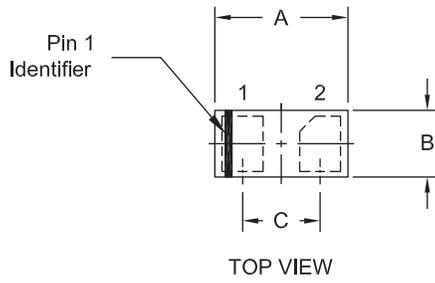
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$ )  $V_F=1.0\text{V MAX @ } I_F=10\text{mA}$

Maximum Reverse Stand-off Voltage $V_{RWM}$	Breakdown Voltage			Test Current $I_T$	Maximum Reverse Leakage Current $I_R @ V_{RWM}$	Maximum Clamping Voltage $V_C @ I_{PP}$	Peak Pulse Current $I_{PP}$	Typical Junction Capacitance @ 0V Bias $C_J$
	MIN V	NOM V	MAX V					
V				mA	$\mu\text{A}$	V	A	pF
4.0	5.8	6.2	6.6	5.0	1.0	10.7	3.0	25

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**TLM2D3D6 CASE - MECHANICAL OUTLINE**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.022	0.026	0.55	0.65
B	0.010	0.014	0.25	0.35
C	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

**MARKING CODE: S**

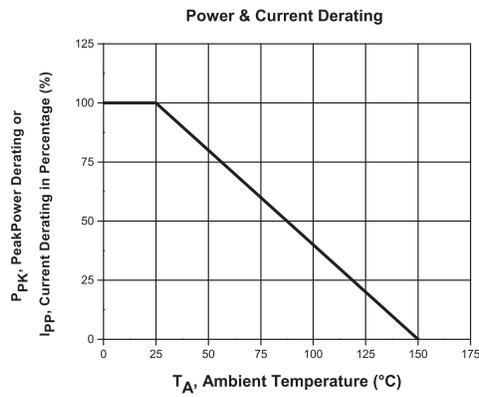
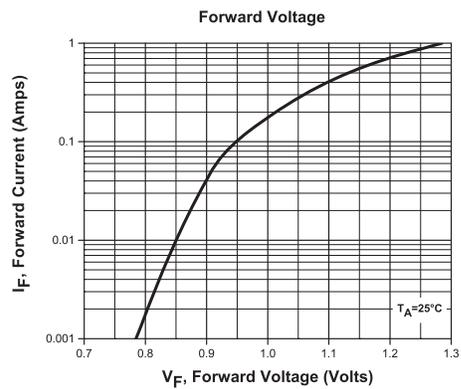
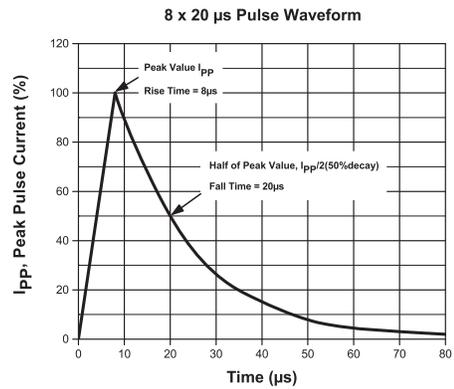
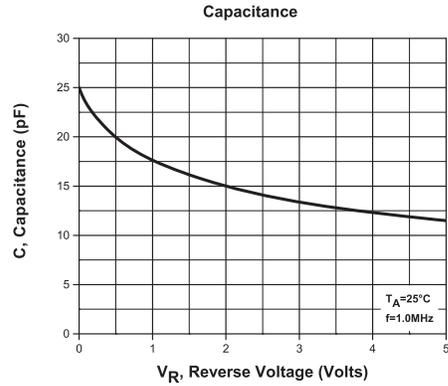
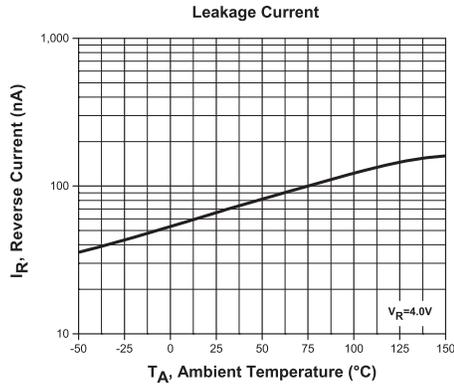
R2

R2 (2-April 2015)

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**TYPICAL ELECTRICAL CHARACTERISTICS**



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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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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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