

CTLTVS12 Transient Voltage Suppressor in the miniature TLM2D3D6 package



Central Semiconductor's CTLTVS12 is a space saving, low leakage TVS in the ultra small, ultra low profile TLM2D3D6 surface mount package. This device is designed to protect sensitive equipment against ESD damage.

Features:

- Ultra small, ultra low profile package
- Low capacitance
- Low leakage current
- ESD protection IEC 61000-4-2:
Air discharge - 30kV
Contact discharge - 30kV

Applications:

- Data line / User interface protection
- DC power rail clamping
- ESD protection of logic level ICs

Benefits:

- Low idle power consumption
- Low profile
- Space saving

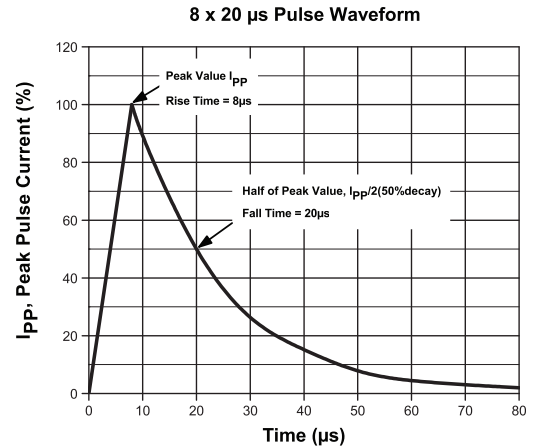
Literature



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Typical Electrical Characteristics



Samples



To order samples of this device visit:
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weblink scan

Use QR reader
for direct link to
product web page.

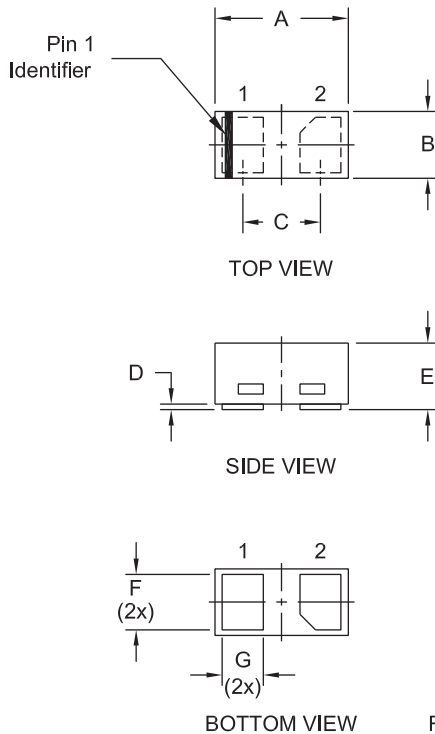


Maximum Ratings ($T_A = 25^\circ\text{C}$)			Electrical Characteristics: ($T_A = 25^\circ\text{C}$)											
PPK	VESD	T_J, T_{stg}	$V_F @ I_F$		Maximum Reverse Stand-off Voltage V_{RWM}	Breakdown Voltage $V_{BR} @ I_T$			Test Current I_T	Maximum Reverse Leakage Current $I_R @ V_{RWM}$	Maximum Clamping Voltage $V_C @ I_{PP}$	Peak Pulse Current I_{PP}	Typical Capacitance @ 0V Bias	Typical Capacitance @ 9V Bias
MAX (W)	MAX (kV)	MAX ($^\circ\text{C}$)	MAX (V)	(mA)	(V)	MIN (V)	NOM (V)	MAX (V)	(mA)	(μA)	(V)	(A)	(pF)	(pF)
35	30	-55 to +150	1.0	10	9.0	10	12	14	5.0	1.0	18	1.8	14	5.0

CTLTVS12

Transient Voltage Suppressor in the ultra miniature TLM2D3D6 package

Mechanical Drawing - TLM2D3D6



SYMBOL	DIMENSIONS			
	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

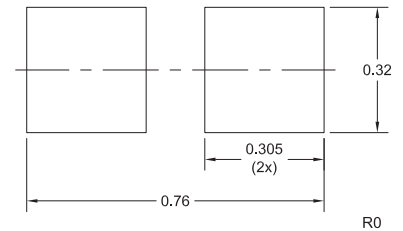
TLM2D3D6 (REV: R2)

Lead Code:

- 1) Cathode
- 2) Anode

Marking Code: O

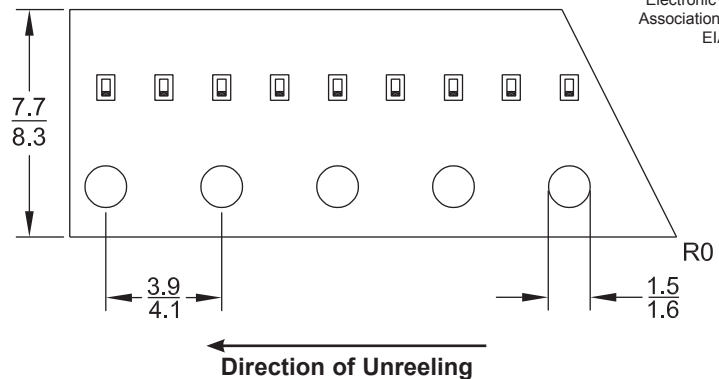
Mounting Pad Geometry (Dimensions in mm)



Tape Dimensions and Orientation

(Dimensions in mm)

Tape Width: 8mm



Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7"	8,000	CTLTVS12 TR

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Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	9	72,000	9x9x5	23x23x13	3	2
	18	144,000	9x9x9	23x23x23	6	3
	40	320,000	21x9x9	53x23x23	13	6
	108	864,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples of this device visit: www.centrasemi.com/info/CTLTVS12

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