

**CMXTVS5-4****SURFACE MOUNT SILICON  
LOW CAPACITANCE  
QUAD TVS/DIODE ARRAY**[www.centrasemi.com](http://www.centrasemi.com)**SUPERmini™**Specified by  
STAND-OFF VOLTAGE**SOT-26 CASE****DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMXTVS5-4 is a 4-line TVS/Diode array packaged in a SUPERmini™ surface mount case. This device, with its low capacitance, was designed to protect four high speed data or transmission lines from over-voltage transients and ESD damage.

**MARKING CODE: CTV4****FEATURES:**

- ESD protection: 8kV Contact; 15kV Air (IEC61000-4-2: Level 4)
- Low capacitance
- Low clamping voltage
- Protects four I/O lines
- Protects supply voltage rail

**APPLICATIONS:**

- USB 2.0 Power and Data Line Protection
- HDMI Interface
- Digital Video Interface (DVI)
- Ethernet Ports

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

Input Voltage

ESD Voltage, IEC61000-4-2 (Contact)

Operating and Storage Junction Temperature

**SYMBOL** $V_I$  $V_{ESD}$  $T_J, T_{stg}$ 

5.5

8.0

-55 to +150

**UNITS**

V

kV

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

Maximum Reverse Stand-Off Voltage	Minimum Reverse Breakdown Voltage pin 5 to pin 2		Maximum Reverse Leakage Current pin 5 to pin 2		Maximum Clamping Voltage 8x20 $\mu\text{s}$ I/O to pin 2		Maximum Off State Junction Capacitance I/O to GND ( $V_R=0, f=1.0\text{MHz}$ )	Maximum Off State Junction Capacitance I/O to I/O ( $V_R=0, f=1.0\text{MHz}$ )
	$V_{RWM}$	$V_Z @ I_Z$		$I_R @ V_{RWM}$		$V_C @ I_{PP}$		$C_J$
V	V	mA	$\mu\text{A}$	V	V	A	pF	pF
5.0	6.0	1.0	5.0	5.0	12	1.0	1.2	0.6

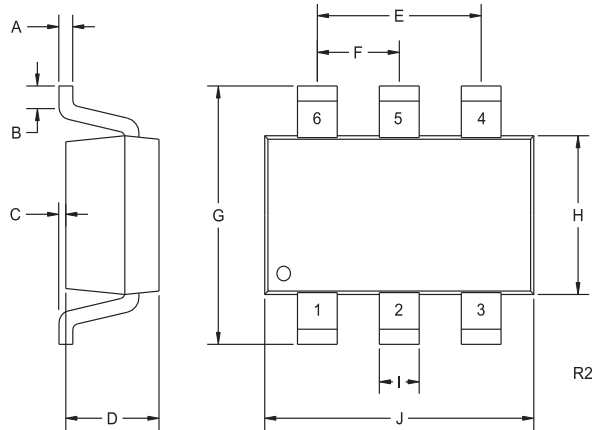
R1 (2-March 2012)

CMXTVS5-4

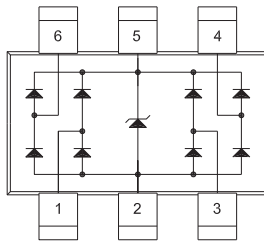
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**SOT-26 CASE - MECHANICAL OUTLINE**



**PIN CONFIGURATION**



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

**LEAD CODE:**

- 1) I/O 1
- 2) Ground
- 3) I/O 2
- 4) I/O 3
- 5) Supply Voltage
- 6) I/O 4

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