

CMXTVS5V6
CMXTVS6V2

SURFACE MOUNT
QUAD SILICON TVS/ZENER ARRAY



www.centrasemi.com

SUPERmini™



Specified by
BREAKDOWN VOLTAGE

SOT-26 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXTVS5V6 and CMXTVS6V2 are 4-line TVS/Zener arrays packaged in a SUPERmini™ surface mount case. These devices are designed to protect sensitive electronic equipment, such as computers, networking communication, cell phones and instrumentation from over-voltage transients and ESD damage.

**MARKING CODES: CMXTVS5V6: 5V6C
CMXTVS6V2: 6V2C**

FEATURES:

- Very Low Clamping Voltage
- Low Leakage Current
- 150W Peak Power Dissipation
- IEC61000-4-2 ESD 20kV Air, 15kV Contact Compliance

APPLICATIONS:

- Hand Held Portable Equipment
- Networks, Servers and Telecom
- Desktop and Notebook Computers
- Instrumentation

MAXIMUM RATINGS: (T_A=25°C)

Peak Power Dissipation (8x20µs)
Peak Power Dissipation (10x1000µs)
ESD Voltage (IEC61000-4-2, Air)
Operating and Storage Junction Temperature

SYMBOL

P_{PK} 150
P_{PK} 24
V_{ESD} 20
T_J, T_{stg} -55 to +150

UNITS

W
W
kV
°C

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C)

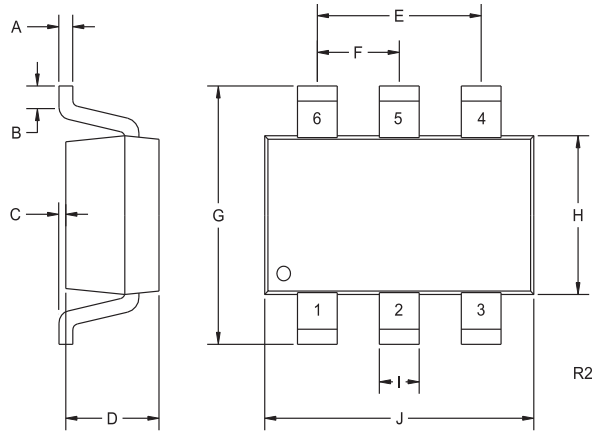
Type	Breakdown Voltage			Maximum Leakage Current		Maximum Clamping Voltage (10x1000µs)		Maximum Clamping Voltage (8x20µs)		Maximum Capacitance @ 0V Bias	Maximum Capacitance @ 2.8V Bias	Maximum Impedance
	V _{BR} @ 1.0mA			I _{RWM} @ V _{RWM}		V _C @ I _{PP}		V _C @ I _{PP}		pF	pF	Ω
	MIN V	NOM V	MAX V	µA	V	V	A	V	A			
CMXTVS5V6	5.32	5.6	5.88	2.0	3.0	8.0	3.0	12	12.5	275	160	400
CMXTVS6V2	5.89	6.2	6.51	0.7	4.3	9.0	2.66	12.5	12	260	150	300

CMXTVS5V6
CMXTVS6V2

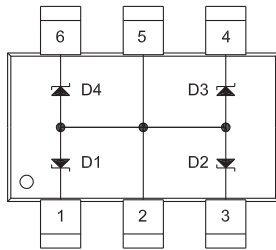
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SOT-26 CASE - MECHANICAL OUTLINE



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) Cathode D1
- 2) Anode D1, D2, D3, D4
- 3) Cathode D2
- 4) Cathode D3
- 5) Anode D1, D2, D3, D4
- 6) Cathode D4

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CMXTVS6V2: 6V2C

R3 (19-June 2012)