

CMYTVS5-2**SURFACE MOUNT SILICON
LOW CAPACITANCE
5 VOLT, 2-LINE
TVS/DIODE ARRAY**
www.centra-semi.com
DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMYTVS5-2 is a 2-line TVS/Diode array packaged in the SOT-543 surface mount case. This device, with its low capacitance, was designed to protect two high speed data or transmission lines from over-voltage transients and ESD damage.

MARKING CODE: C52**FEATURES:**

- 15kV ESD protection
- Low capacitance
- Low clamping voltage
- Protects two I/O lines
- Protects supply voltage rail

APPLICATIONS:

- USB 2.0 power and data line protection
- HDMI
- DVI
- Ethernet ports

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)Peak Power Dissipation (8x20 μs)

ESD Voltage (IEC61000-4-2, Air)

Operating and Storage Junction Temperature

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

60

15

-55 to +150

UNITS

W

kV

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

Maximum Reverse Stand-Off Voltage	Minimum Reverse Breakdown Voltage pin 4 to pin 1		Maximum Reverse Leakage Current pin 4 to pin 1		Maximum Clamping Voltage I/O to pin 1 (8x20 μs)		Maximum Clamping Voltage I/O to pin 1 (8x20 μs)		Off State Junction Capacitance I/O to GND ($V_R=0$, $f=1.0\text{MHz}$)		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_R	V_C	@ I_{PP}	V_C	@ I_{PP}	C_J		C_J	
V	V	mA	μA	V	V	A	V	A	TYP pF	MAX pF	TYP pF	MAX pF
5.0	6.2	1.0	1.0	5.0	9.0	1.0	12	5.0	0.9	1.2	0.5	0.6

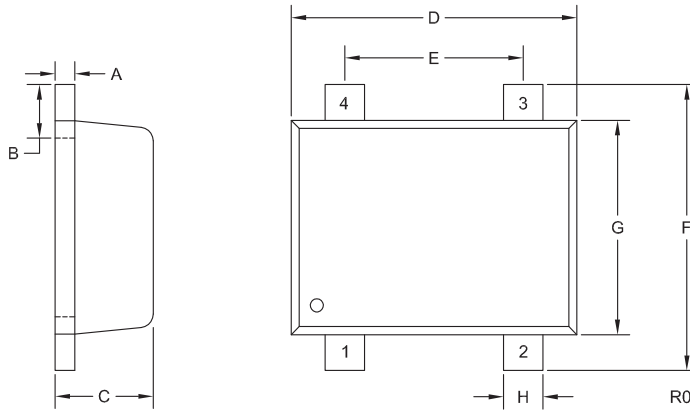
R1 (4-January 2013)

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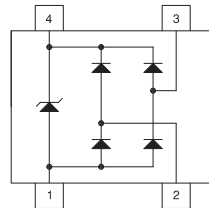
SOT-543 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.002	0.007	0.07	0.17
B	0.004	0.012	0.10	0.30
C	0.019	0.024	0.50	0.60
D	0.059	0.067	1.50	1.70
E	0.035	0.044	0.90	1.10
F	0.059	0.067	1.50	1.70
G	0.044	0.052	1.10	1.30
H	0.006	0.011	0.17	0.27

SOT-543 (REV: R0)

PIN CONFIGURATION

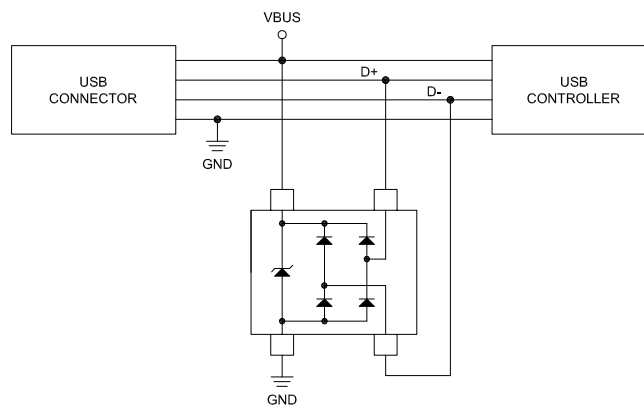


LEAD CODE:

- 1) Ground
- 2) I/O
- 3) I/O
- 4) Supply Voltage (V_{CC})

MARKING CODE: C52

TYPICAL APPLICATION - USB 2.0

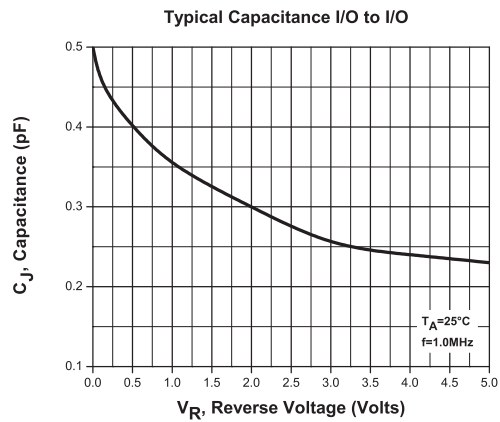
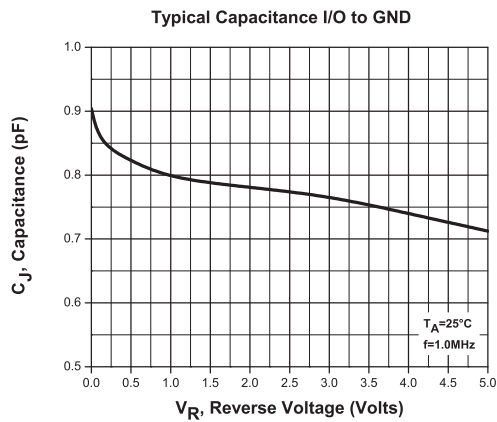
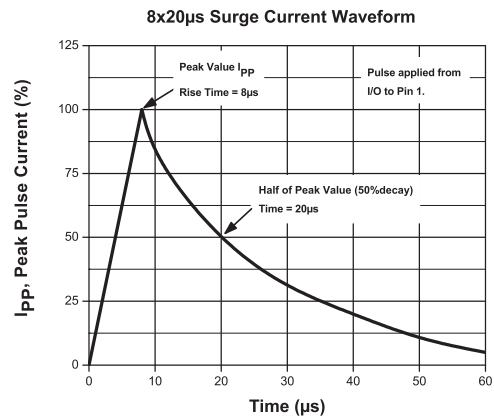
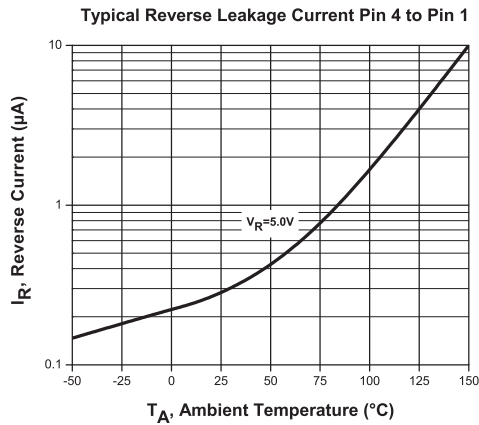


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TYPICAL ELECTRICAL CHARACTERISTICS



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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
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

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

REQUESTING PRODUCT PLATING

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

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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centalsemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01141
Notification Date:	12/17/19
Last Buy Date:	6/17/20
Last Shipment Date	12/17/20

Summary: The CMYTVS5-2 transient voltage suppressor is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
CMYTVS5-2 BK	N/A, Stock Only
CMYTVS5-2 TR	N/A, Stock Only

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.