CMXSTB200 CMXSTB300 CMXSTB400

SURFACE MOUNT SILICON FORWARD REFERENCE DIODE (STABISTOR)



SOT-26 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXSTB200 Series types are multi-chip silicon diodes mounted in a surface mount SOT-26 case and designed for applications requiring controlled forward voltage characteristics such as voltage regulation, sensing, and comparing. This series is a surface mount alternative to the 1N4156, 1N4157, and 1N5179 leaded devices, respectively. Special selections of DC parameters including $V_{\rm F}$ at various test conditions are available on special order.

MARKING CODES: CMXSTB200: CST2

CMXSTB300: CST3 CMXSTB400: CST4

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _{.J} , T _{sta}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS PER DEVICE - TESTED BETWEEN PIN 1 AND PIN3: $(T_A=25^{\circ}C)$

		CMXS	CMXSTB200		CMXSTB300		CMXSTB400	
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	UNITS
I_{R}	V _R =20V		10		10		10	μΑ
V_{F}	I _F =1.0mA	1.11	1.31	1.71	1.91	2.20	2.80	V
V_{F}	I _F =10mA	1.38	1.58	2.08	2.28	2.60	3.20	V
VF	I _E =100mA	1.64	1.94	2.61	2.91	3.40	4.10	V

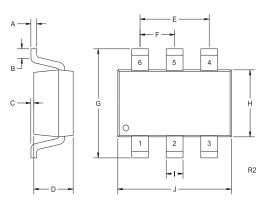
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(STABISTOR)



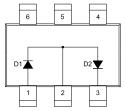
SOT-26 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.004	0.007	0.11	0.19
В	0.016	-	0.40	-
С	-	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
Н	0.059	0.067	1.50	1.70
	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

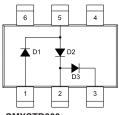
PIN CONFIGURATIONS



CMXSTB200 LEAD CODE:

- 1) Anode D1
- 2) Cathode D1, Anode D2
- 3) Cathode D2
- 4) No Connection
- 5) No Connection
- 6) No Connection

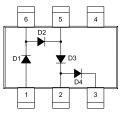
MARKING CODE: CST2



CMXSTB300 LEAD CODE:

- 1) Anode D1 2) Cathode D2, Anode D3
- 3) Cathode D3
- 4) No Connection
- 5) Anode D2, Cathode D1

6) No Connection
MARKING CODE: CST3

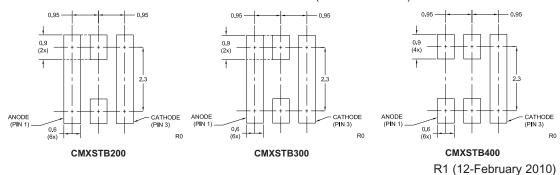


CMXSTB400 LEAD CODE:

- 1) Anode D1 2) Cathode D3, Anode D4
- 3) Cathode D4
- 4) No Connection
- 5) Anode D3, Cathode D2
- 6) Cathode D1, Anode D2

MARKING CODE: CST4

SUGGESTED MOUNTING PADS (Dimensions in mm)



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 guick 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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Product End of Life Notification

PDN ID:	PDN01164
Notification Date:	2/05/21
Last Buy Date:	8/05/21
Last Shipment Date	2/05/22

Summary: The following devices manufactured in the SOT-26 case are 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.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

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@centralsemi.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.

CCC785 REV 002