

CMXSTB200  
 CMXSTB300  
 CMXSTB400

**SURFACE MOUNT SILICON  
 FORWARD REFERENCE DIODE  
 (STABISTOR)**



[www.centrasemi.com](http://www.centrasemi.com)



**SOT-26 CASE**

**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  $V_F$  at various test conditions are available on special order.

**MARKING CODES: CMXSTB200: CST2  
 CMXSTB300: CST3  
 CMXSTB400: CST4**

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

Power Dissipation  
 Operating and Storage Junction Temperature

**SYMBOL**

$P_D$   
 $T_J, T_{stg}$

350  
 -65 to +150

**UNITS**

mW  
 $^\circ\text{C}$

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

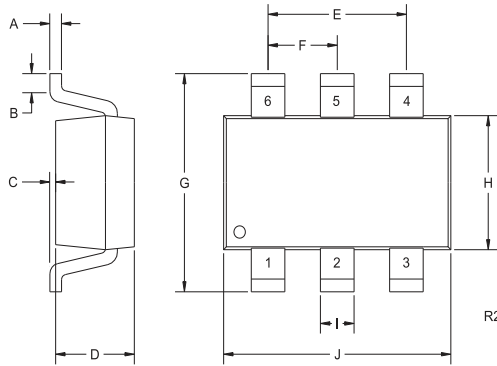
SYMBOL	TEST CONDITIONS	CMXSTB200		CMXSTB300		CMXSTB400		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
$I_R$	$V_R=20\text{V}$		10		10		10	$\mu\text{A}$
$V_F$	$I_F=1.0\text{mA}$	1.11	1.31	1.71	1.91	2.20	2.80	V
$V_F$	$I_F=10\text{mA}$	1.38	1.58	2.08	2.28	2.60	3.20	V
$V_F$	$I_F=100\text{mA}$	1.64	1.94	2.61	2.91	3.40	4.10	V

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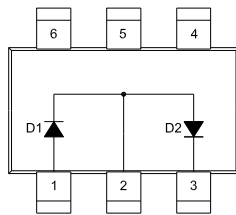
**SOT-26 CASE - MECHANICAL OUTLINE**



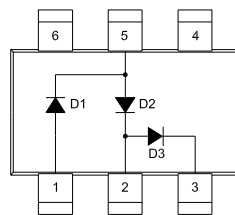
SYMBOL	DIMENSIONS		DIMENSIONS	
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	0.004	-	0.10
D	0.039	0.047	1.00	1.20
E	0.074	0.075	1.88	1.92
F	0.037	0.038	0.93	0.97
G	0.102	0.118	2.60	3.00
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

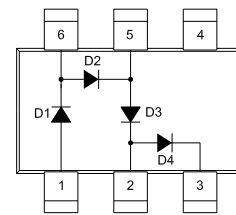
**PIN CONFIGURATIONS**



**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**

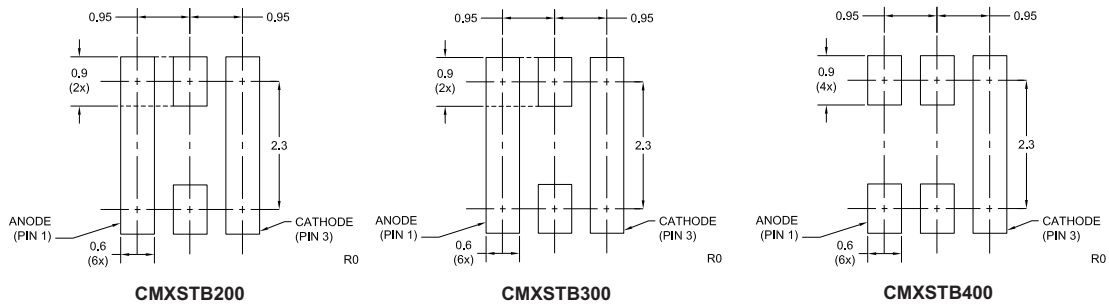


**CMXSTB300**  
**LEAD CODE:**  
1) Anode D1  
2) Cathode D2, Anode D3  
3) Cathode D3  
4) No Connection  
5) Anode D2, Cathode D1  
6) No Connection  
**MARKING CODE: CST3**



**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)**



R1 (12-February 2010)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centalsemi.com](http://www.centalsemi.com)

**Worldwide Field Representatives:**  
[www.centalsemi.com/wwreps](http://www.centalsemi.com/wwreps)

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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.centalsemi.com/terms)

# Product End of Life Notification

<b>PDN ID:</b>	PDN01164
<b>Notification Date:</b>	2/05/21
<b>Last Buy Date:</b>	8/05/21
<b>Last Shipment Date</b>	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.**

<u>Central Part Number</u>	<u>Replacement</u>
CMXDM7002A BK	N/A, Stock Only
CMXDM7002A TR	N/A, Stock Only
CMXD2004S BK	N/A, Stock Only
CMXD2004S TR	N/A, Stock Only
CMXSH2-4LS BK	N/A, Stock Only
CMXSH2-4LS TR	N/A, Stock Only
CMXSTB300 BK	N/A, Stock Only
CMXSTB300 TR	N/A, Stock Only
CMXSTB400 BK	N/A, Stock Only
CMXSTB400 TR	N/A, Stock Only
CMXT2207 BK	N/A, Stock Only
CMXT2207 TR	N/A, Stock Only
CMXT2907A BK	N/A, Stock Only
CMXT2907A 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@centralsemi.com](mailto: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.