

CMXSTB200
CMXSTB300
CMXSTB400

SURFACE MOUNT SILICON
FORWARD REFERENCE DIODE
(STABISTOR)



SOT-26 CASE



www.centra-semi.com

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	μA
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

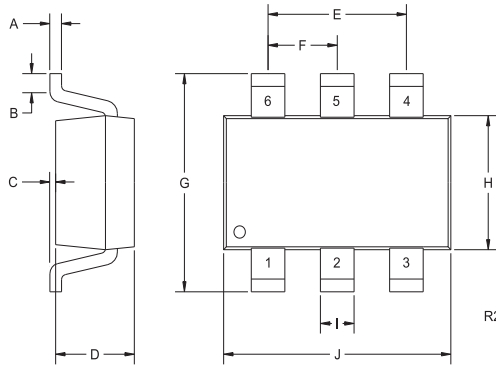
R1 (12-February 2010)

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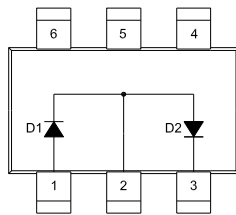
SOT-26 CASE - MECHANICAL OUTLINE



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)

PIN CONFIGURATIONS

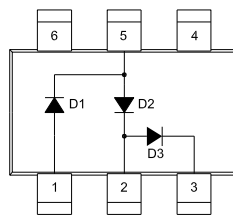


CMXSTB200

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

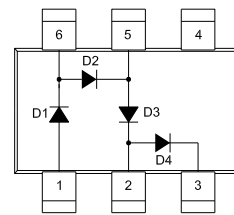


CMXSTB300

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



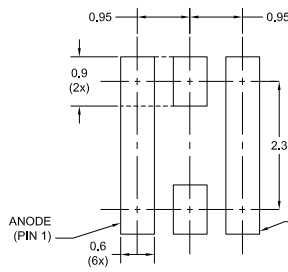
CMXSTB400

LEAD CODE:

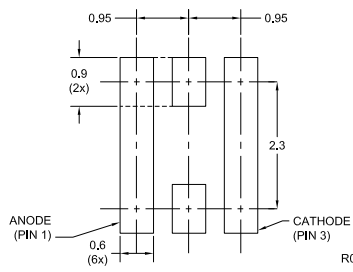
- 1) Anode D1
- 2) Cathode D3, Anode D4
- 3) Cathode D4
- 4) No Connection
- 5) Anode D3, Cathode D2
- 6) Cathode D1, Anode D2

MARKING CODE: CST4

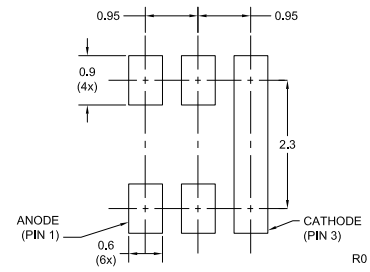
SUGGESTED MOUNTING PADS (Dimensions in mm)



CMXSTB200



CMXSTB300



CMXSTB400

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