CMXD2004S CMXD2004SR

SURFACE MOUNT
DUAL PAIR, IN-SERIES
HIGH VOLTAGE
SILICON SWITCHING DIODES





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXD2004S and CMXD2004SR consists of dual, in-series pairs of high voltage silicon switching diodes, manufactured in a SUPERmini™ SOT-26 surface mount package, and designed for high voltage switching applications. This device can be configured as a 1200V switching diode, or as a bridge rectifier. See optional mounting pad configurations on following page.

MARKING CODES: CMXD2004S: CX04S

CMXD2004SR: C04SR

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Average Forward Current	IO	200	mA
Continuous Forward Current	l _F	225	mA
Peak Repetitive Forward Current	IFRM	625	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘιΛ	357	°C/W

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

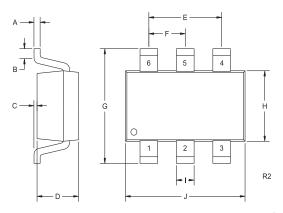
SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_{R}	V _R =240V		100	nA
I_{R}	V _R =240V, T _A =150°C		100	μΑ
BV_R	I _R =100μA	300		V
V_{F}	I _F =100mA		1.0	V
CJ	V_R =0, f=1.0MHz		5.0	pF
t _{rr}	$I_F=I_R=30$ mA, $I_{rr}=3.0$ mA, $R_L=100$ Ω		50	ns

CMXD2004S CMXD2004SR

SURFACE MOUNT DUAL PAIR, IN-SERIES HIGH VOLTAGE SILICON SWITCHING DIODES



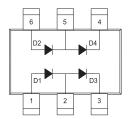
SOT-26 CASE - MECHANICAL OUTLINE



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 CONFIGURATION

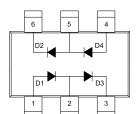


LEAD CODE:

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

CMXD2004S **MARKING CODE: CX04S**

PIN CONFIGURATION



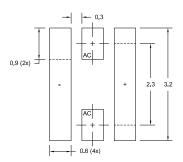
LEAD CODE:

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

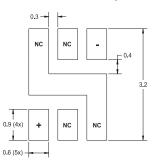
CMXD2004SR

MARKING CODE: C04SR

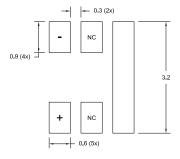
OPTIONAL MOUNTING PADS (Dimensions in mm)



For Bridge Configuration **CMXD2004S**



For 1200V Series Configuration CMXD2004S



For 1200V Series Configuration CMXD2004SR

R4 (25-May 2012)

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