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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	VR	240	V
Peak Repetitive Reverse Voltage	V _{RRM}	300	V
Average Forward Current	Ι _Ο	200	mA
Continuous Forward Current	١ _F	225	mA
Peak Repetitive Forward Current	^I FRM	625	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	А
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	т _Ј , т _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C 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	μA
BVR	Ι _R =100μΑ	300		V
VF	I _F =100mA		1.0	V
СЈ	V _R =0, f=1.0MHz		5.0	pF
t _{rr}	I _F =I _R =30mA, I _{rr} =3.0mA, R _L =100Ω		50	ns

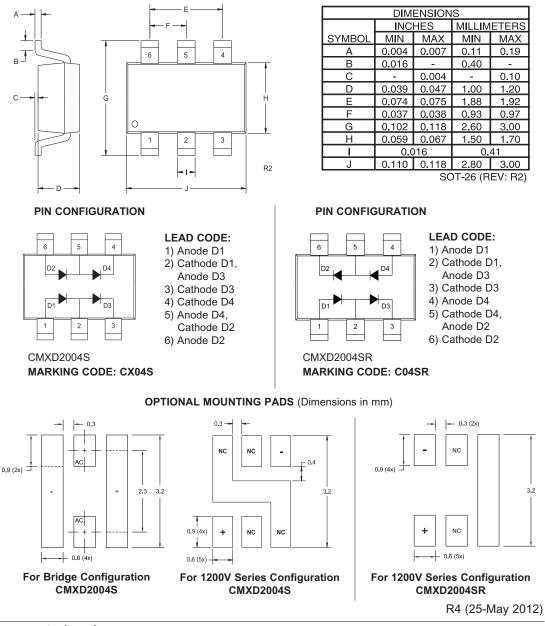
R4 (25-May 2012)



CMXD2004SR SURFACE MOUNT

CMXD2004S

DUAL PAIR, IN-SERIES HIGH VOLTAGE SILICON SWITCHING DIODES



SOT-26 CASE - MECHANICAL OUTLINE

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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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

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

Corporate Headquarters & Customer Support Team

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Worldwide Distributors: www.centralsemi.com/wwdistributors

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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 Part Number	Replacement
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.

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.