

CMXD3004SR

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



SOT-26 CASE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXD3004SR consists of two in-series pairs of high voltage silicon switching diodes, manufactured in an SOT-26 surface mount package, designed for high voltage switching applications.

MARKING CODE: C34SR

APPLICATIONS:

- Voltage multipliers
- Steering diode arrays
- Flyback diodes

FEATURES:

- High voltage capability
- Low reverse leakage current
- Fast switching speed
- Low total conduction losses

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

Continuous Reverse Voltage
Peak Repetitive Reverse Voltage
Average Forward Current
Continuous Forward Current
Peak Repetitive Forward Current
Peak Forward Surge Current, $t_p=1.0\mu\text{s}$
Peak Forward Surge Current, $t_p=1.0\text{s}$
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_R	350
V_{RRM}	375
I_O	200
I_F	225
I_{FRM}	625
I_{FSM}	4.0
I_{FSM}	1.0
P_D	350
T_J, T_{stg}	-65 to +150
Θ_{JA}	357

UNITS

V
V
mA
mA
mA
A
A
mW
$^{\circ}\text{C}$
$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
I_R	$V_R=350\text{V}$		0.07	1.0	μA
BV_R	$I_R=100\mu\text{A}$	375	460		V
V_F	$I_F=100\text{mA}$		0.95	1.0	V
C_J	$V_R=0, f=1.0\text{MHz}$		0.50	5.0	pF
t_{rr}	$I_F=I_R=30\text{mA}, I_{rr}=3.0\text{mA}, R_L=100\Omega$		11	50	ns

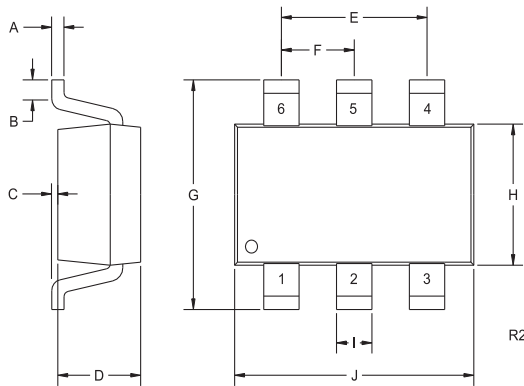
R1 (28-April 2014)

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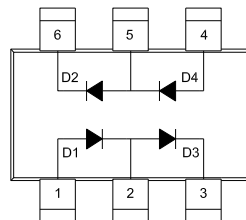
SOT-26 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	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 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

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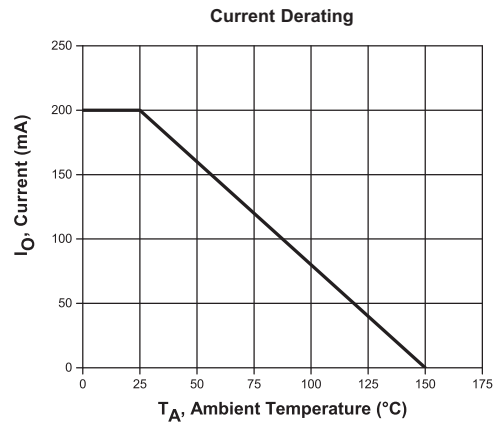
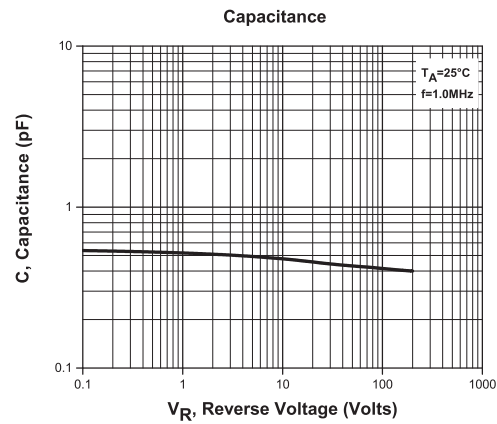
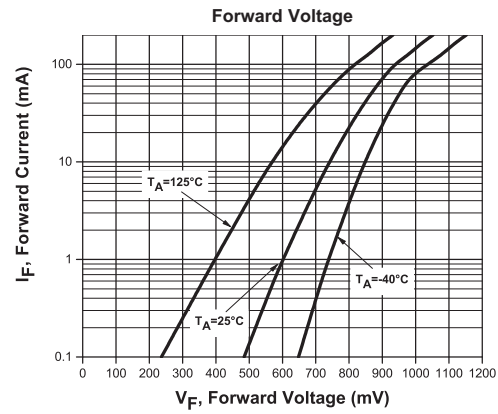
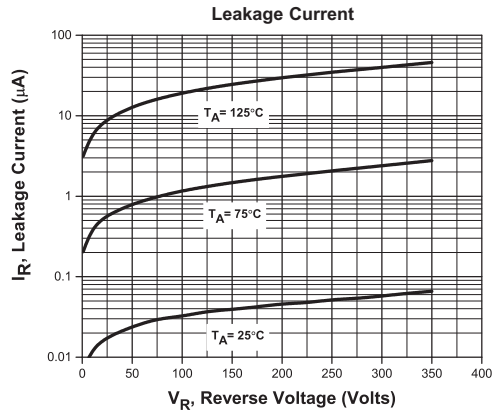
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TYPICAL ELECTRICAL CHARACTERISTICS



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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

DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2nd day air)
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- 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).

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