

CMXD3004SR

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



**SOT-26 CASE**



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

**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
$\Theta_{JA}$	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	$\mu\text{A}$
$BV_R$	$I_R=100\mu\text{A}$	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

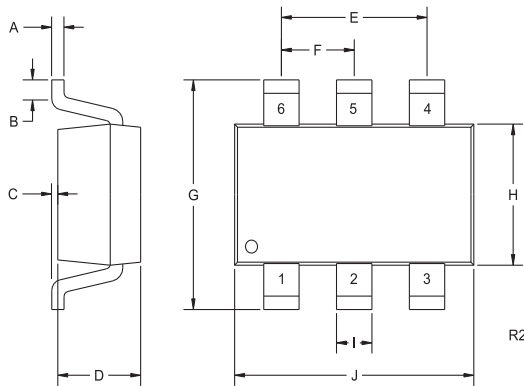
R1 (28-April 2014)

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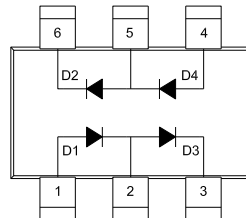
#### SOT-26 CASE - MECHANICAL OUTLINE



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

#### MARKING CODE: C34SR

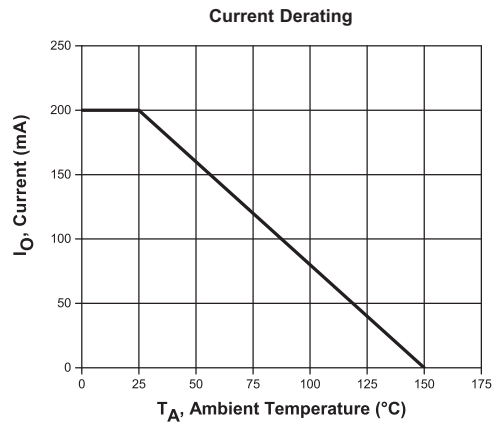
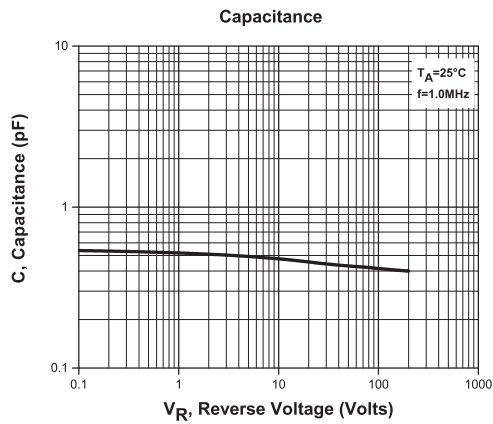
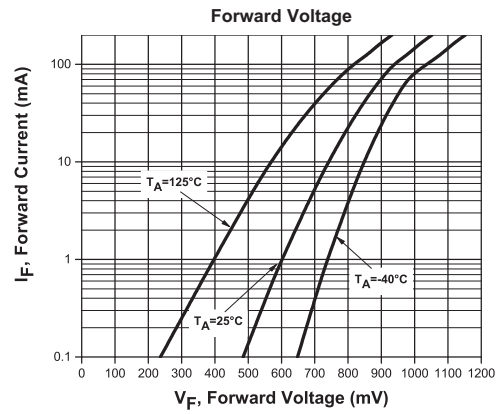
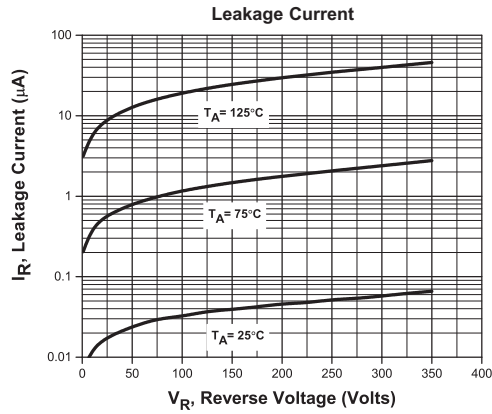
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## TYPICAL ELECTRICAL CHARACTERISTICS



R1 (28-April 2014)

## 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

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