

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	<b>UNITS</b>	V
$V_{RRM}$	375		V
$I_O$	200		mA
$I_F$	225		mA
$I_{FRM}$	625		mA
$I_{FSM}$	4.0		A
$I_{FSM}$	1.0		A
$P_D$	350		mW
$T_J, T_{stg}$	-65 to +150		$^\circ\text{C}$
$\theta_{JA}$	357		$^\circ\text{C/W}$

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

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>UNIT</b>
$I_R$	$V_R=350\text{V}$		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

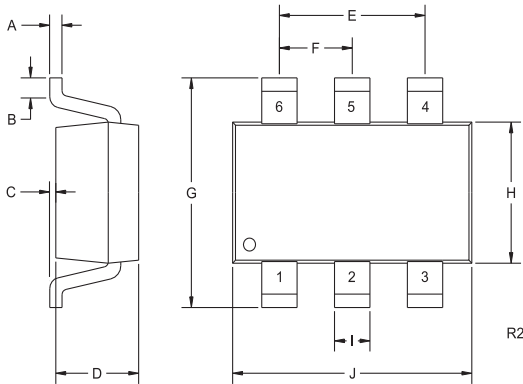
R1 (28-April 2014)

CMXD3004SR

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



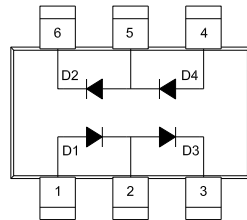
SOT-26 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
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

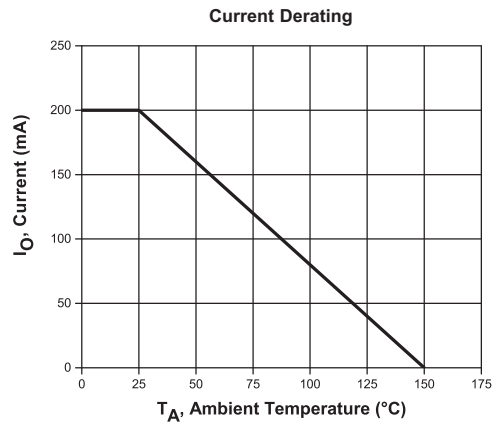
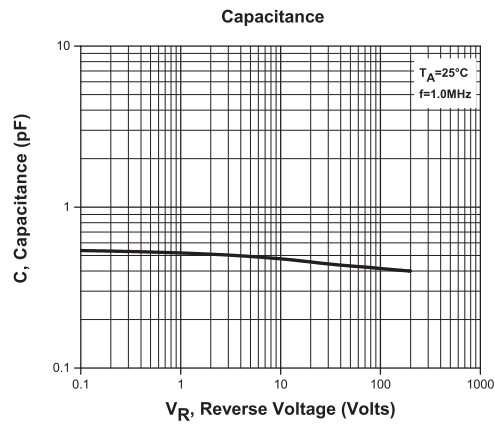
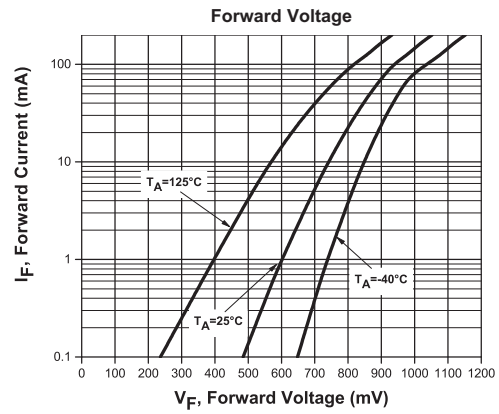
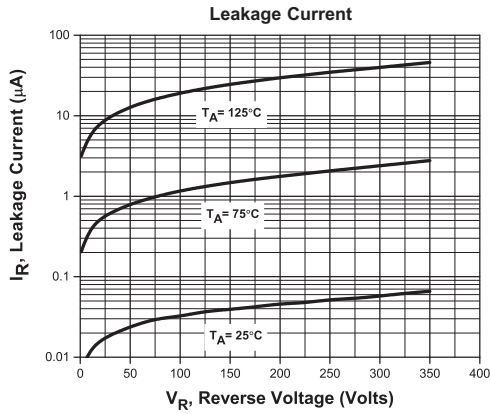
R1 (28-April 2014)

CMXD3004SR

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



TYPICAL ELECTRICAL CHARACTERISTICS



R1 (28-April 2014)