

CMXD2004

**SURFACE MOUNT  
TRIPLE ISOLATED  
HIGH VOLTAGE  
SILICON SWITCHING DIODES**



www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMXD2004 type contains three (3) Isolated High Voltage Silicon Switching Diodes, manufactured by the epitaxial planar process, epoxy molded in a SUPERmini™ surface mount package, designed for applications requiring high voltage capability.

**MARKING CODE: X04**

**SUPERmini™**



**SOT-26 CASE**

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C)

Continuous Reverse Voltage
Peak Repetitive Reverse Voltage
Average Forward Current
Continuous Forward Current
Peak Repetitive Forward Current
Peak Forward Surge Current, tp=1.0µs
Peak Forward Surge Current, tp=1.0s
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

**SYMBOL**

V <sub>R</sub>	240
V <sub>RRM</sub>	300
I <sub>O</sub>	200
I <sub>F</sub>	225
I <sub>FRM</sub>	625
I <sub>FSM</sub>	4.0
I <sub>FSM</sub>	1.0
P <sub>D</sub>	350
T <sub>J</sub> , T <sub>stg</sub>	-65 to +150
θ <sub>JA</sub>	357

**UNITS**

V
V
mA
mA
mA
A
A
mW
°C
°C/W

**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I <sub>R</sub>	V <sub>R</sub> =240V		100	nA
I <sub>R</sub>	V <sub>R</sub> =240V, T <sub>A</sub> =150°C		100	µA
BV <sub>R</sub>	I <sub>R</sub> =100µA	300		V
V <sub>F</sub>	I <sub>F</sub> =100mA		1.0	V
C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz		5.0	pF
t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =30mA, I <sub>rr</sub> =3.0mA, R <sub>L</sub> =100Ω		50	ns

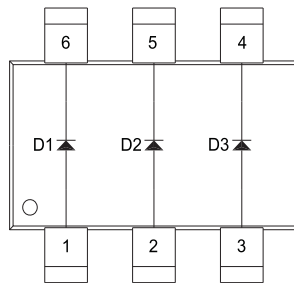
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**SOT-26 CASE - MECHANICAL OUTLINE**



**PIN CONFIGURATION**



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)

**LEAD CODE:**

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

**MARKING CODE: X04**

R4 (9-February 2010)