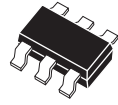


CMXD6001

**SURFACE MOUNT SUPERmini™  
TRIPLE ISOLATED  
LOW LEAKAGE  
SILICON SWITCHING DIODES**

**SUPERmini™**



**SOT-26 CASE**

**Central™**  
**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMXD6001 type contains three (3) Isolated Silicon Switching Diodes, manufactured by the epitaxial planar process, epoxy molded in a SUPERmini™ surface mount package, designed for switching applications requiring extremely low leakage.

**MARKING CODE: X01**

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

Continuous Reverse Voltage  
Peak Repetitive Reverse Voltage  
Continuous Forward Current  
Peak Repetitive Forward Current  
Forward Surge Current, tp=1 μsec.  
Forward Surge Current, tp=1 sec.  
Power Dissipation  
Operating and Storage  
Junction Temperature  
Thermal Resistance

**SYMBOL**

V<sub>R</sub> 75  
V<sub>RRM</sub> 100  
I<sub>F</sub> 250  
I<sub>FRM</sub> 250  
I<sub>FSM</sub> 4000  
I<sub>FSM</sub> 1000  
P<sub>D</sub> 350

**UNITS**

V  
V  
mA  
mA  
mA  
mA  
mW

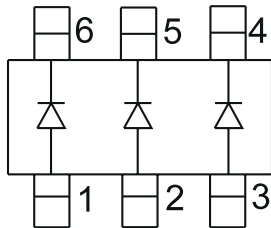
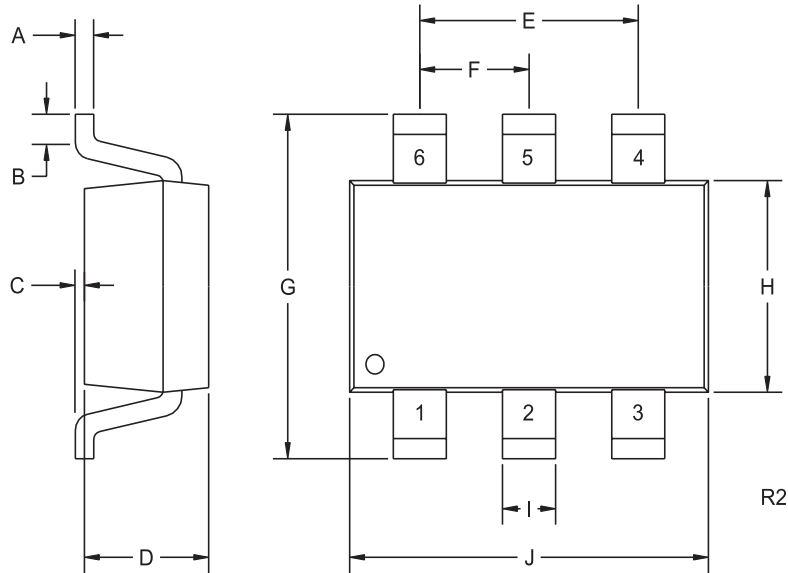
T<sub>J</sub>, T<sub>stg</sub> -65 to +150  
θ<sub>JA</sub> 357

°C  
°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =75V		500	pA
BV <sub>R</sub>	I <sub>R</sub> =100μA	100		V
V <sub>F</sub>	I <sub>F</sub> =1.0mA		0.85	V
V <sub>F</sub>	I <sub>F</sub> =10mA		0.95	V
V <sub>F</sub>	I <sub>F</sub> =100mA		1.1	V
C <sub>T</sub>	V <sub>R</sub> =0, f=1 MHz		2.0	pF
t <sub>rr</sub>	I <sub>R</sub> =I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω Rec. to 1.0mA		3.0	μs

**SOT-26 CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Anode 1
- 2) Anode 2
- 3) Anode 3
- 4) Cathode 3
- 5) Cathode 2
- 6) Cathode 1

SYMBOL	DIMENSIONS			
	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)

**MARKING CODE: X01**