



CMDD2004

SUPERmini™
SURFACE MOUNT
HIGH VOLTAGE SWITCHING DIODE

SUPERmini™**SOD-323 CASE****MAXIMUM RATINGS:** ($T_A=25^\circ\text{C}$)

	SYMBOL	UNITS
Continuous Reverse Voltage	V_R	V
Peak Repetitive Reverse Voltage	V_{RRM}	V
Peak Repetitive Reverse Current	I_O	mA
Continuous Forward Current	I_F	mA
Peak Repetitive Forward Current	I_{FRM}	mA
Forward Surge Current, $t_p=1 \mu\text{sec}$.	I_{FSM}	mA
Forward Surge Current, $t_p=1 \text{ sec}$.	I_{FSM}	mA
Power Dissipation	P_D	mW
Operating and Storage		
Junction Temperature	T_J, T_{stg}	$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	$^\circ\text{C}/\text{W}$

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

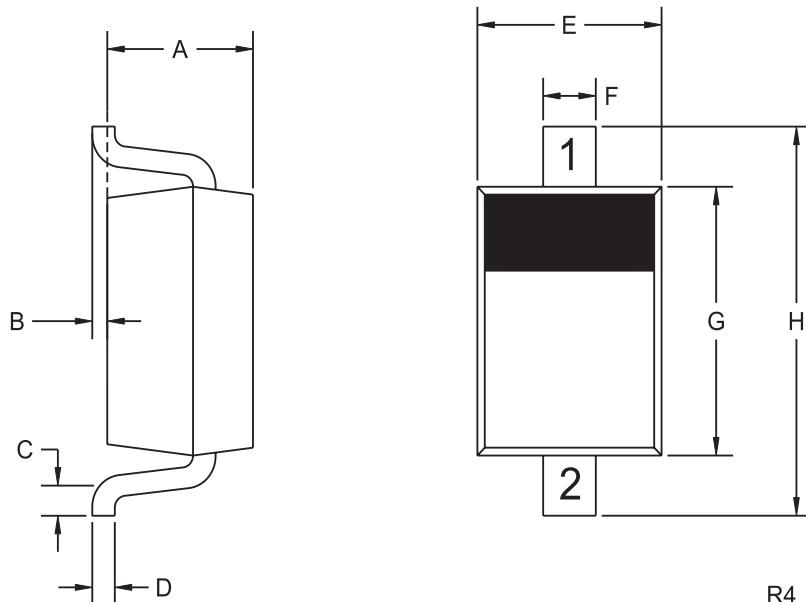
SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
BV_R	$I_R=100\mu\text{A}$	300		V
I_R	$V_R=240\text{V}$		100	nA
I_R	$V_R=240\text{V}, T_A=150^\circ\text{C}$		100	μA
V_F	$I_F=100\text{mA}$		1.0	V
C_T	$V_R=0, f=1 \text{ MHz}$		5.0	pF
t_{rr}	$I_F=I_R=30\text{mA}, \text{Rec. To } 3.0\text{mA}, R_L=100\Omega$		50	ns

Central™
Semiconductor Corp.**DESCRIPTION:**

The Central Semiconductor CMDD2004 is a high voltage silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a SUPERmini™ surface mount package, designed for applications requiring high voltage capability.

MARKING CODE: C24

SOD-323 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) CATHODE
- 2) ANODE

MARKING CODE: C24

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)

R4 (6-August 2007)