CMDD2004

SUPERmini™
SURFACE MOUNT
HIGH VOLTAGE SWITCHING DIODE

SOD-323 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDD2004 type 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 is **C24**.

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Continuous Reverse Voltage	V_R	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Peak Repetitive Reverse Current	I_O	200	mA
Continuous Forward Current	I_F	225	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Forward Surge Current, tp=1 μsec.	I_{FSM}	4000	mA
Forward Surge Current, tp=1 sec.	I_{FSM}	1000	mA
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
B_{VR}	I_R=100μA	300		V
I_R	V_R=240V		100	nA
I_R	V_R=240V, T_A=150°C		100	μA
V_F	I_F=100mA		1.0	V
C_T	V_R=0, f=1 MHz		5.0	pF
t_{rr}	I_F=I_R=30mA, Rec. To 3.0mA, R_L=100Ω		50	ns

R1 (7-August 2001)

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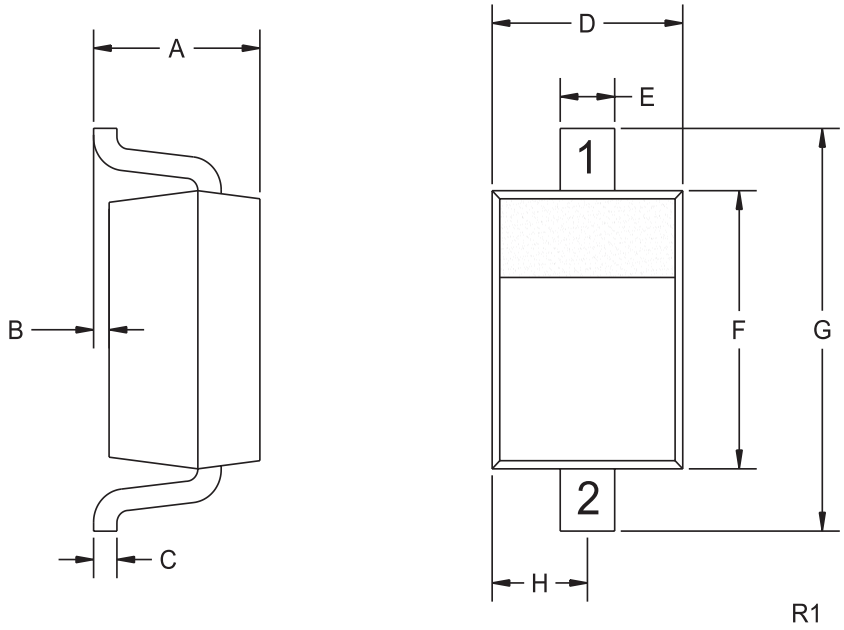
SOD-323 CASE - MECHANICAL OUTLINE



R1

LEAD CODE:

1) Cathode
2) Anode

MARKING CODE: C24

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.039	0.043	1.00	1.10
B	0.000	0.004	0.00	0.10
C	0.005	0.008	0.14	0.22
D	0.045	0.053	1.15	1.35
E	0.011	0.015	0.28	0.38
F	0.063	0.071	1.60	1.80
G	0.094	0.102	2.40	2.60
H	0.023	0.027	0.58	0.68

SOD-323 (REV: R1)

R1 (7-August 2001)

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