

CMOD2004

SURFACE MOUNT
HIGH VOLTAGE
SILICON SWITCHING DIODE

ULTRAmini™



SOD-523 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOD2004 type is a high voltage silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a ULTRAmini™ surface mount package, designed for applications requiring high voltage capability.

MARKING CODE: 04

MAXIMUM RATINGS: ($T_A=25^\circ C$)

Continuous Reverse Voltage	V_R	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Average Forward Current	I_O	200	mA
Continuous Forward Current	I_F	225	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Peak Forward Surge Current, $t_p=1.0\mu s$	I_{FSM}	4.0	A
Peak Forward Surge Current, $t_p=1.0s$	I_{FSM}	1.0	A
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: ($T_A=25^\circ C$ unless otherwise noted)

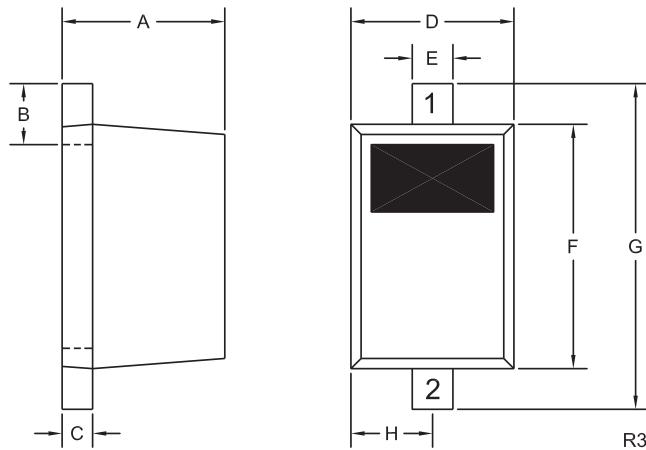
SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	$V_R=240V$		100	nA
I_R	$V_R=240V, T_A=150^\circ C$		100	µA
BV_R	$I_R=100\mu A$	300		V
V_F	$I_F=100mA$		1.0	V
C_T	$V_R=0, f=1.0MHz$		5.0	pF
t_{rr}	$I_F=I_R=30mA, I_{rr}=3.0mA, R_L=100\Omega$		50	ns

CMOD2004

SURFACE MOUNT
HIGH VOLTAGE
SILICON SWITCHING DIODE



SOD-523 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: 04

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.020	0.031	0.50	0.80
B	0.008	0.016	0.20	0.40
C	0.002	0.008	0.05	0.20
D	0.028	0.035	0.70	0.90
E	0.008	0.014	0.20	0.35
F	0.039	0.055	1.00	1.40
G	0.055	0.071	1.40	1.80
H	0.016		0.40	

SOD-523 (REV: R3)

R5 (11-April 2011)