CMOD2004

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



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°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Average Forward Current	IO	200	mA
Continuous Forward Current	Ι _Ε	225	mA
Peak Repetitive Forward Current	I _{FRM}	625	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘΙΔ	500	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \mbox{°C unless otherwise noted})$

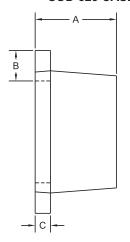
SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_R	V _R =240V		100	nA
I_{R}	V _R =240V, T _A =150°C		100	μΑ
BV_R	I _R =100μA	300		V
V_{F}	I _F =100mA		1.0	V
c_T	$V_R=0$, f=1.0MHz		5.0	pF
t _{rr}	$I_F=I_R=30$ mA, $I_{rr}=3.0$ mA, $R_L=100\Omega$		50	ns

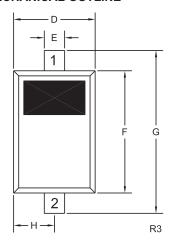
CMOD2004

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



SOD-523 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: 04

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.020	0.031	0.50	0.80			
В	0.008	0.016	0.20	0.40			
С	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			
Н	0.016		0.4	40			

SOD-523 (REV: R3)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110

Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388 www.centralsemi.com Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com