CMHD2003

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHD2003 is a Silicon Switching Diode, manufactured by the epitaxial planar process, epoxy molded in a SOD-123 surface mount package, designed for applications requiring high voltage capability.

MARKING CODE: C03



SOD-123 CASE

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	250	V
Continuous Forward Current	I _F	250	mA
Average Rectified Current	IO	200	mA
Peak Repetitive Forward Current	IFRM	625	mA
Peak Forward Surge Current, tp<1.0s (T _C =25°C)	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	400	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	312.5	°C/W

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

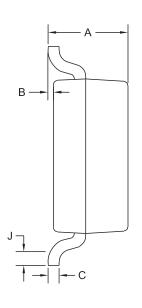
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{R}	V _R =200V			100	nA
I_{R}	V _R =200V, T _C =100°C			15	μΑ
V_{F}	I _F =100mA			1.0	V
C_T	V _R =0, f=1.0MHz		1.5		pF
t _{rr}	$I_F=I_R=30$ mA, $R_L=100$ Ω, Rec. to 3.0mA	4		50	ns

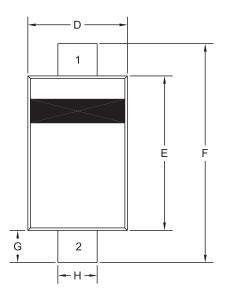
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SOD-123 CASE - MECHANICAL OUTLINE





R5

LEAD CODE

- 1) Cathode 2) Anode

MARKING CODE: C03

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.037	0.053	0.95	1.35		
В	0.000	0.005	0.00	0.12		
С	•	0.008	-	0.20		
D	0.055	0.071	1.40	1.80		
Е	0.098	0.110	2.50	2.80		
F	0.142	0.154	3.60	3.90		
G	0.016	-	0.40	-		
Н	0.020	0.028	0.50	0.70		
J	0.010	-	0.25	-		

SOD-123 (REV:R5)

R5 (5-August 2010)

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

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