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	ΙF	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)

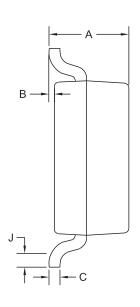
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V _R =200V			100	nA
I_{R}	V _R =200V, T _C =100°C			15	μA
V_{F}	I _F =100mA			1.0	V
C_T	$V_R=0$, $f=1.0MHz$		1.5		pF
t _{rr}	$I_F=I_R=30$ mA, $R_I=100\Omega$, Rec. to 3.0mA	١		50	ns

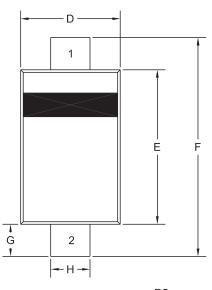
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SOD-123 CASE - MECHANICAL OUTLINE





R5

LEAD CODE1) 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 guick 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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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