

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE

SOD-123 CASE



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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

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	VR	250	V
Continuous Forward Current	١ _F	250	mA
Average Rectified Current	IO	200	mA
Peak Repetitive Forward Current	I _{FRM}	625	mA
Peak Forward Surge Current, tp<1.0s (T _C =25°C)	IFSM	1.0	А
Power Dissipation	PD	400	mW
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistance	ΘJA	312.5	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =200V			100	nA
I _R	V _R =200V, T _C =100°C			15	μΑ
VF	I _F =100mA			1.0	V
CT	V _R =0, f=1.0MHz		1.5		pF
t _{rr}	$I_F=I_R=30$ mA, $R_L=100\Omega$, Rec. to 3.0mA	۱.		50	ns

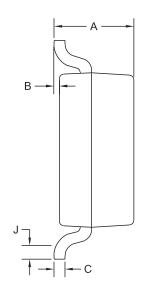


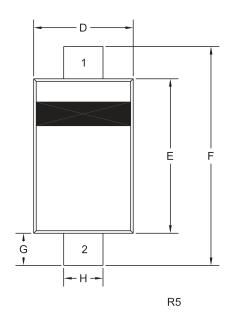


CMHD2003

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SOD-123 CASE - MECHANICAL OUTLINE





LEAD CODE 1) Cathode 2) Anode

MARKING CODE: C03

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	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		
E	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)

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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