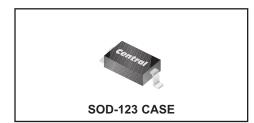


SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHD4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a SOD-123 surface mount package, designed for high speed switching applications.

MARKING CODE: C48

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	VR	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	١ _F	250	mA
Peak Repetitive Forward Current	IFRM	500	mA
Peak Forward Surge Current, tp=1.0µs	IFSM	4.0	А
Peak Forward Surge Current, tp=1.0s	IFSM	1.0	А
Power Dissipation	PD	400	mW
Operating and Storage Junction Temperature	т _Ј , т _{stg}	-65 to +150	°C
Thermal Resistance	ΘJΑ	312.5	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =20V		25	nA
I _R	V _R =20V, T _C =25°C		50	μA
I _R	V _R =75V		5.0	μA
BVR	Ι _R =100μΑ	100		V
V _F	I _F =5.0mA	0.62	0.72	V
VF	I _F =100mA		1.0	V
с _т	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	V_{R} =6.0V, I _F =10mA, I _R =1.0mA, R _L =100 Ω		4.0	ns

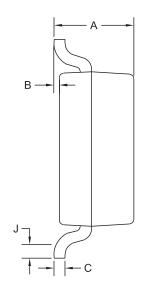
R7 (5-August 2010)

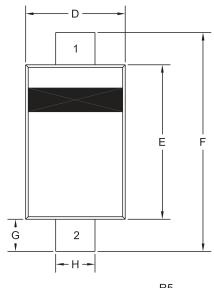


CMHD4448

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE

SOD-123 CASE - MECHANICAL OUTLINE





R5

LEAD CODE 1) Cathode 2) Anode

MARKING CODE: C48

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)							

R7 (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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