CMHD4448

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



SOD-123 CASE

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	I _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	500	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}	400	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	ΘΙΔ	312.5	°C/W

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

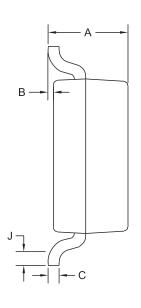
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =20V		25	nA
I_{R}	V _R =20V, T _C =25°C		50	μΑ
I_{R}	V _R =75V		5.0	μΑ
BV_R	I _R =100μA	100		V
VF	I _F =5.0mA	0.62	0.72	V
V_{F}	I _F =100mA		1.0	V
C_T	V_R =0, f=1.0MHz		4.0	pF
t _{rr}	V_R =6.0V, I_F =10mA, I_R =1.0mA, R_L =100 Ω		4.0	ns

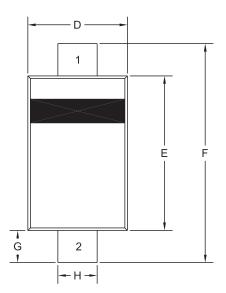
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SURFACE MOUNT HIGH SPEED SILICON **SWITCHING DIODE**



SOD-123 CASE - MECHANICAL OUTLINE





R5

LEAD CODE

- 1) Cathode 2) Anode

MARKING CODE: C48

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
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)

R7 (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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