

SURFACE MOUNT **HIGH SPEED** SILICON SWITCHING DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOD4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, epoxy molded in an ULTRAmini™ surface mount package, designed for high speed switching applications.

MARKING CODE: 48

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	250	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

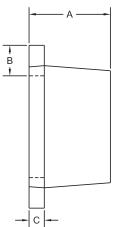
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =20V		25	nA
BVR	I _R =5.0μA	75		V
BVR	I _R =100μA	100		V
V _F	I _F =5.0mA	0.62	0.72	V
V _F	I _F =100mA		1.0	V
С _Т	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	$I_R=I_F=10mA$, $I_{rr}=1.0mA$, $R_L=100\Omega$		4.0	ns

R6 (11-April 2011)



CMOD4448

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	0.00
LEAD CODE:	SYMBO
1) Cathode	A
2) Anode	В
2) Alloue	С
	D
MARKING CODE: 48	E

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A	0.020	0.031	0.50	0.80	
В	0.008	0.016	0.20	0.40	
С	0.002	0.008	0.05	0.20	
D	0.028	0.035	0.70	0.90	
E	0.008	0.014	0.20	0.35	
F	0.039	0.055	1.00	1.40	
G	0.055	0.071	1.40	1.80	
Н	0.016		0.40		
SOD-523 (REV: R3)					

SOD-523 CASE - MECHANICAL OUTLINE

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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

- 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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