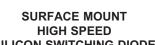
CMOD4448

HIGH SPEED SILICON SWITCHING DIODE





www.centralsemi.com

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	V_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	l _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}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	500	°C/W

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

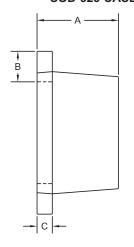
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =20V		25	nA
BV_R	I _R =5.0μA	75		V
BV_R	I _R =100μA	100		V
V_{F}	I _F =5.0mA	0.62	0.72	V
V_{F}	I _F =100mA		1.0	V
C_T	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	$I_R = I_F = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω		4.0	ns

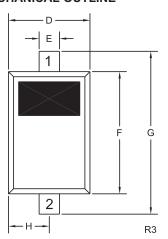
CMOD4448

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE



SOD-523 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode 2) Anode

MARKING CODE: 48

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	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)						

R6 (11-April 2011)

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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