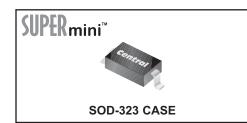


SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDD4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a **SUPER**mini[™] surface mount package, designed for high speed switching applications.

MARKING CODE: 44

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	١ _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	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	275	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	Θ_{JA}	545	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =20V		25	nA
вv _R	Ι _R =5.0μΑ	75		V
вv _R	Ι _R =100μΑ	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, R _L =100Ω, Rec. to 1.0mA		4.0	ns

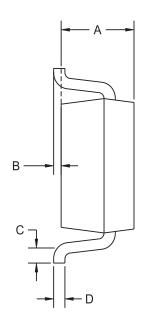
R6 (8-January 2010)

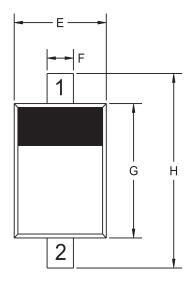


CMDD4448

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE

SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) CATHODE 2) ANODE

MARKING CODE: 44

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	0.031	0.039	0.80	1.00		
В	0.000	0.004	0.00	0.10		
С	0.008	-	0.20	-		
D	0.004	0.007	0.11	0.19		
E	0.045	0.053	1.15	1.35		
F	-	0.014	-	0.35		
G	0.063	0.071	1.60	1.80		
Н	0.094	0.102	2.40	2.60		
COD 202 (DEV/+ D4)						

SOD-323 (REV: R4)

R6 (8-January 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 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

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