CMDD4448

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE



SOD-323 CASE



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	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}	275	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	Θ_{JA}	545	°C/W

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

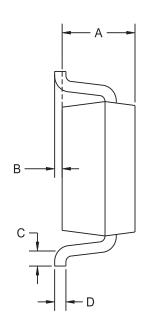
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =20V		25	nA
BVR	I _R =5.0μA	75		V
BVR	I _R =100μA	100		V
V _F	I _F =5.0mA	0.62	0.72	V
٧ _F	I _F =100mA		1.0	V
C _T	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec. to 1.0mA		4.0	ns

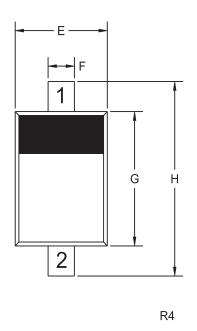
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SOD-323 CASE - MECHANICAL OUTLINE





- **LEAD CODE**:
 1) CATHODE
- 2) ANODE

MARKING CODE: 44

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	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		
Е	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		
00D 000 (DEL DA)						

SOD-323 (REV: R4)

R6 (8-January 2010)