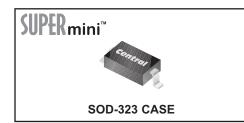


SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The Central Semiconductor CMDD2004 is a high voltage silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a SUPERmini[™] surface mount package, designed for applications requiring high voltage capability.

MARKING CODE: C24

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	VR	250	V
Peak Repetitive Reverse Voltage	V _{RRM}	300	V
Peak Repetitive Reverse Current	Ι _Ο	200	mA
Continuous Forward Current	١ _F	225	mA
Peak Repetitive Forward Current	I _{FRM}	625	mA
Peak Forward Surge Current, tp=1.0µs	^I FSM	4.0	А
Peak Forward Surge Current, tp=1.0s	^I FSM	1.0	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	Θ_{JA}	600	°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C u	unless otherwise n	oted)	
SYMBOL TEST CONDITIONS I _R V _R =240V	MIN	MAX 100	UNIT nA

I _R V _R =240V, T _A =150°C 100	μA
BV _R I _R =100μA 300	V
V _F I _F =100mA 1.0	V
C _T V _R =0, f=1.0MHz 5.0	pF
t_{rr} I _F =I _R =30mA, I _{rr} =3.0mA, R _L =100 Ω 50	ns

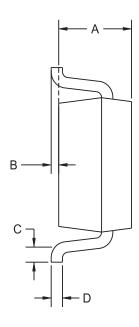
R6 (24-June 2011)

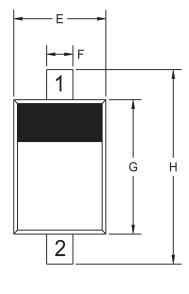


CMDD2004

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE

SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: C24

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		
H	0.094	0.102	2.40	2.60		
SOD-323 (REV: R4)						

R6 (24-June 2011)

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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 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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