CMDD2004

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE

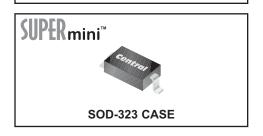


www.centralsemi.com

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: (TA=25°C)	SYMBOL	0.50	UNITS
Continuous Reverse Voltage	v_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Peak Repetitive Reverse Current	IO	200	mA
Continuous Forward Current	I _F	225	mA
Peak Repetitive Forward Current	I _{FRM}	625	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 +175	°C
Thermal Resistance	$\Theta_{\sf JA}$	600	°C/W

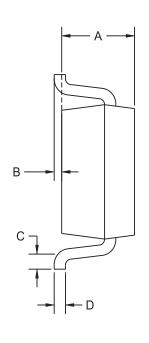
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) SYMBOL **TEST CONDITIONS** UNIT MAX V_R=240V I_R 100 nΑ V_R=240V, T_A=150°C 100 I_R μΑ I_R=100μA 300 BV_R V I_F=100mA ٧ V_{F} 1.0 рF $V_R=0$, f=1.0MHz C_{T} 5.0 $I_F=I_R=30mA$, $I_{rr}=3.0mA$, $R_L=100\Omega$ 50 ns

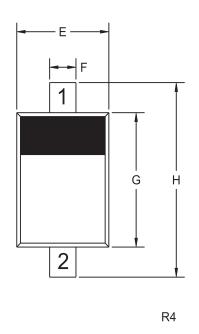
CMDD2004

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE



SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE: 1) Cathode

- 2) Anode

MARKING CODE: C24

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		
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		

SOD-323 (REV: R4)

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

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

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor: CMDD2004 TR