

SURFACE MOUNT HIGH VOLTAGE SILICON SWITCHING DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOD2004 type is a high voltage silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a ULTRAmini[™] surface mount package, designed for applications requiring high voltage capability.

MARKING CODE: 04

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	VR	240	V
Peak Repetitive Reverse Voltage	V _{RRM}	300	V
Average Forward Current	IO	200	mA
Continuous Forward Current	١ _F	225	mA
Peak Repetitive Forward Current	IFRM	625	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	250	mW
Operating and Storage Junction Temperature	TJ, T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

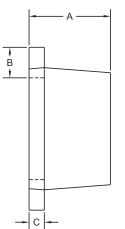
SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
IR	V _R =240V		100	nA
IR	V _R =240V, T _A =150°C		100	μΑ
BVR	I _R =100μΑ	300		V
VF	I _F =100mA		1.0	V
С _Т	V _R =0, f=1.0MHz		5.0	pF
t _{rr}	$I_F=I_R=30$ mA, $I_{rr}=3.0$ mA, $R_L=100\Omega$		50	ns

R5 (11-April 2011)

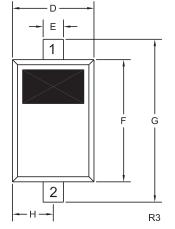


CMOD2004

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SOD-523 CASE - MECHANICAL OUTLINE



LEAD CODE:	
1) Cathode	
2) Anode	

MARKING CODE: 04

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	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)							

30D-323 (REV. R3)

R5 (11-April 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 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

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Central Semiconductor: <u>CMOD2004</u> <u>CMOD6263</u> <u>CMOD2004 TR</u> <u>CMOD2004 TR13</u>