CMDD3003

SURFACE MOUNT LOW LEAKAGE SILICON SWITCHING DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDD3003 type is a silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a **SUPER**mini™ surface mount package, designed for switching applications requiring a extremely low leakage diode.

MARKING CODE: 03C

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	180	V
Average Rectified Current	l _O	200	mA
Continuous Forward Current	I _F	600	mA
Peak Repetitive Forward Current	I _{FRM}	700	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	2.0	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 +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

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

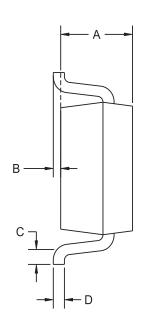
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{R}	V _R =125V		1.0	nA
I_{R}	V _R =125V, T _A =150°C		3.0	μΑ
I_{R}	$V_R=180V$		10	nA
I_{R}	V _R =180V, T _A =150°C		5.0	μΑ
BV_R	I _R =5.0μA	200		V
V_{F}	I _F =1.0mA	0.62	0.72	V
V_{F}	I _F =10mA	0.72	0.83	V
V_{F}	I _F =50mA	0.80	0.89	V
V_{F}	I _F =100mA	0.83	0.93	V
V_{F}	I _F =200mA	0.87	1.10	V
V_{F}	I _F =300mA	0.90	1.15	V
C _T	$V_R=0$, f=1.0MHz		4.0	pF

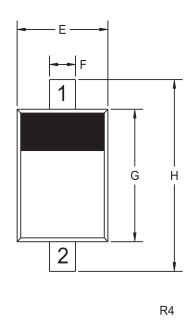
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SURFACE MOUNT LOW LEAKAGE SILICON **SWITCHING DIODE**



SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) CATHODE 2) ANODE

MARKING CODE: 03C

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)

R1 (8-January 2010)

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

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