

SURFACE MOUNT ULTRA LOW LEAKAGE SILICON SWITCHING DIODE





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## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMDD6001 type is a silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a SUPERmini<sup>™</sup> surface mount package, designed for switching applications requiring a extremely low leakage diode.

## MARKING CODE: C61

SYMBOL		UNITS
VR	75	V
V <sub>RRM</sub>	100	V
١ <sub>F</sub>	250	mA
IFRM	250	mA
IFSM	4.0	А
IFSM	1.0	А
PD	250	mW
T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Θ <sub>JA</sub>	500	°C/W
	V <sub>R</sub> V <sub>RRM</sub> IF IFRM IFSM IFSM PD TJ, T <sub>stg</sub>	V <sub>R</sub> 75   V <sub>RRM</sub> 100   I <sub>F</sub> 250   I <sub>FRM</sub> 250   I <sub>FSM</sub> 4.0   I <sub>FSM</sub> 1.0   P <sub>D</sub> 250   T <sub>J</sub> , T <sub>stg</sub> -65 to +150

## **ELECTRICAL CHARACTERISTICS**: (T<sub>A</sub>=25°C unless otherwise noted)

symbol I <sub>R</sub>	TEST CONDITIONS V <sub>R</sub> =75V	MIN	<b>MAX</b> 500	UNITS pA
BVR	I <sub>R</sub> =100μA	100		V
V <sub>F</sub>	I <sub>F</sub> =1.0mA		0.85	V
V <sub>F</sub>	I <sub>F</sub> =10mA		0.95	V
V <sub>F</sub>	I <sub>F</sub> =100mA		1.1	V
CT	V <sub>R</sub> =0, f=1.0MHz		2.0	pF
t <sub>rr</sub>	I <sub>R</sub> =I <sub>F</sub> =10mA, I <sub>rr</sub> =1.0mA, R <sub>L</sub> =100Ω		3.0	μs

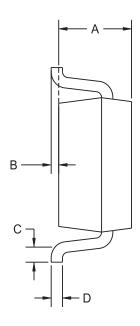
R5 (9-May 2011)

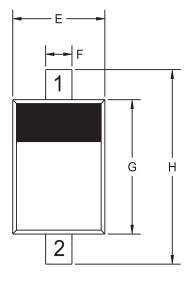


## CMDD6001

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# SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: C61

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	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)							

R5 (9-May 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 (2<sup>nd</sup> 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

## **Corporate Headquarters & Customer Support Team**

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