CMDD6001

SURFACE MOUNT ULTRA LOW LEAKAGE SILICON SWITCHING DIODE



SOD-323 CASE



www.centralsemi.com

DESCRIPTION:

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

MARKING CODE: C61

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	75	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Continuous Forward Current	Ι _F	250	mA
Peak Repetitive Forward Current	^I FRM	250	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 +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

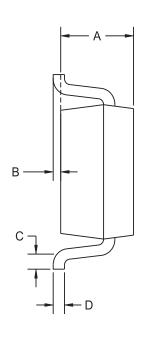
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS				
I_{R}	V _R =75V		500	pA				
BV_R	I _R =100μA	100		V				
V_{F}	I _F =1.0mA		0.85	V				
V_{F}	I _F =10mA		0.95	V				
V_{F}	I _F =100mA		1.1	V				
C_T	V _R =0, f=1.0MHz		2.0	pF				
t _{rr}	$I_R=I_F=10$ mA, $I_{rr}=1.0$ mA, $R_L=100$ Ω		3.0	μs				

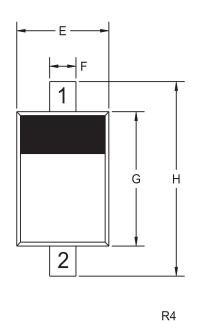
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SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE: 1) Cathode

- 2) Anode

MARKING CODE: C61

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)

R5 (9-May 2011)

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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