

## Excellent Integrated System Limited

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[Central Semiconductor Corp](#)  
[CMOD6001 TR](#)

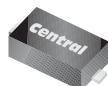
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**CMOD6001**

**SURFACE MOUNT  
ULTRA LOW LEAKAGE  
SILICON SWITCHING DIODE**

**ULTRAmini™**



**SOD-523 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMOD6001 type is a silicon switching diode manufactured by the epitaxial planar process, epoxy molded in a ULTRAmini™ surface mount package, designed for switching applications requiring an extremely low leakage diode.

**MARKING CODE: 61**

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C)

Continuous Reverse Voltage  
Peak Repetitive Reverse Voltage  
Continuous Forward Current  
Peak Repetitive Forward Current  
Peak Forward Surge Current, tp=1.0μs  
Peak Forward Surge Current, tp=1.0s  
Power Dissipation  
Operating and Storage Junction Temperature  
Thermal Resistance

**SYMBOL**

V<sub>R</sub>  
V<sub>RRM</sub>  
I<sub>F</sub>  
I<sub>FRM</sub>  
I<sub>FSM</sub>  
I<sub>FSM</sub>  
P<sub>D</sub>  
T<sub>J</sub>, T<sub>stg</sub>  
Θ<sub>JA</sub>

75  
100  
250  
250  
4.0  
1.0  
250  
-65 to +150  
500

**UNITS**

V  
V  
mA  
mA  
A  
A  
mW  
°C  
°C/W

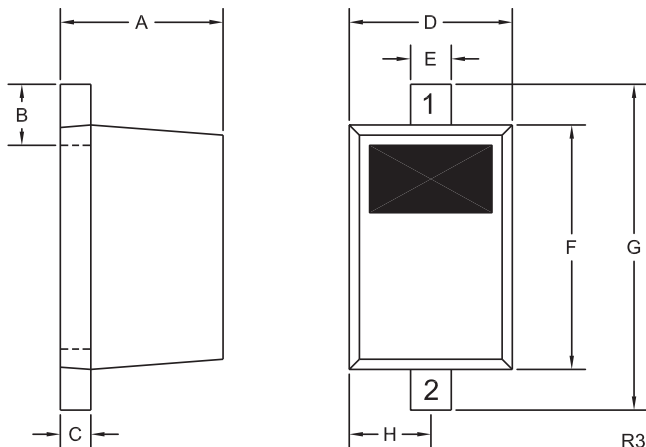
**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =75V		500	pA
BV <sub>R</sub>	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
C <sub>T</sub>	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

**CMOD6001**  
**SURFACE MOUNT**  
**ULTRA LOW LEAKAGE**  
**SILICON SWITCHING DIODE**



**SOD-523 CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Cathode
- 2) Anode

**MARKING CODE: 61**

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.020	0.031	0.50	0.80
B	0.008	0.016	0.20	0.40
C	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
H	0.016		0.40	

SOD-523 (REV: R3)

R6 (9-May 2011)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick 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
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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