

## Excellent Integrated System Limited

Stocking Distributor

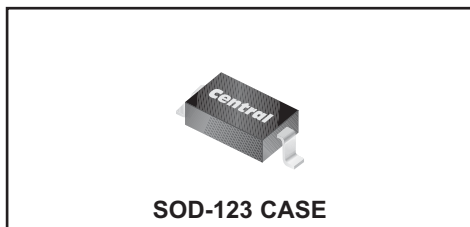
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[Central Semiconductor Corp](#)  
[CMHD4150 TR](#)

For any questions, you can email us directly:

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

**CMHD4150**  
**SURFACE MOUNT  
HIGH SPEED SILICON  
SWITCHING DIODE**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMHD4150 type is a high speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded surface mount package, designed for high speed switching applications.

**MARKING CODE: C50**

**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>

**UNITS**

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

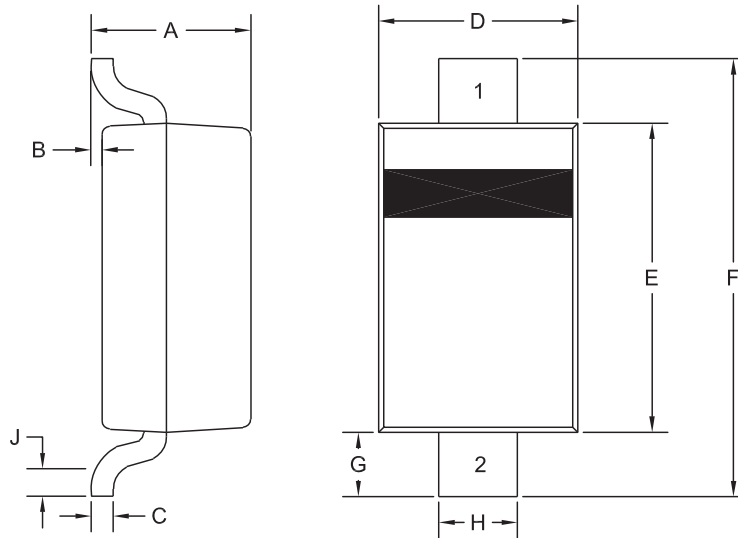
**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =50V		100	nA
V <sub>F</sub>	I <sub>F</sub> =1.0mA	0.54	0.62	V
V <sub>F</sub>	I <sub>F</sub> =10mA	0.66	0.74	V
V <sub>F</sub>	I <sub>F</sub> =50mA	0.76	0.86	V
V <sub>F</sub>	I <sub>F</sub> =100mA	0.82	0.92	V
V <sub>F</sub>	I <sub>F</sub> =200mA	0.87	1.0	V
C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz		4.0	pF
t <sub>rr</sub>	I <sub>R</sub> =I <sub>F</sub> =10mA, R <sub>L</sub> =100Ω, Rec. to 1.0mA		4.0	ns

**CMHD4150**  
  
**SURFACE MOUNT  
 HIGH SPEED SILICON  
 SWITCHING DIODE**



**SOD-123 CASE - MECHANICAL OUTLINE**



R5

**LEAD CODE**

- 1) Cathode
- 2) Anode

**MARKING CODE: C50**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70
J	0.010	-	0.25	-

SOD-123 (REV:R5)

R3 (5-August 2010)

## 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

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