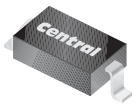
CMHD457A
CMHD459A

SURFACE MOUNT
LOW LEAKAGE SILICON DIODE



SOD-123 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHD457A, CMHD459A types are silicon planar diodes, epoxy molded in a SOD-123 surface mount package, designed for low leakage applications.

MARKING CODES:

CMHD457A: C7A
CMHD459A: C9A

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**	**CMHD457A**	**CMHD459A**	**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	70	200	V
Peak Working Reverse Voltage	V_{RWM}	60	175	V
Average Forward Current	I_O	200		mA
Continuous Forward Current	I_F	500		mA
Peak Forward Surge Current, tp=1.0μs	I_{FSM}	4.0		A
Power Dissipation	P_D	400		mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		°C
Thermal Resistance	Θ_{JA}	312.5		°C/W

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

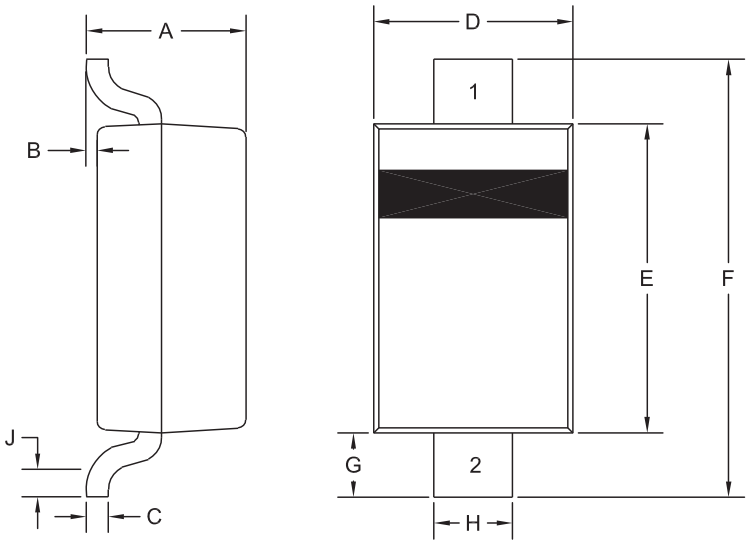
		CMHD457A		**CMHD459A**		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
I_R	V_R=Rated V_{RWM}		25		25	nA
I_R	V_R=Rated V_{RWM}, T_A=150°C		5.0		5.0	μA
BV_R	I_R=100μA	70		200		V
V_F	I_F=100mA		1.0		1.0	V
C_T	V_R=0, f=1.0MHz		6.0		6.0	pF

R2 (5-August 2010)

CMHD457A
CMHD459A

SURFACE MOUNT
LOW LEAKAGE SILICON DIODE

SOD-123 CASE - MECHANICAL OUTLINE



R5

LEAD CODE
1) Cathode
2) Anode

MARKING CODE
CMHD457A: C7A
CMHD459A: C9A

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

R2 (5-August 2010)

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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)
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- 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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