CMHD457A CMHD459A

SURFACE MOUNT LOW LEAKAGE SILICON DIODE



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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



SOD-123 CASE

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	IO	200		mA
Continuous Forward Current	ΙF	50	0	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0)	Α
Power Dissipation	P_{D}	40	0	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	μΑ	
BV_R	I _R =100μA	70		200		V	
VF	I _F =100mA		1.0		1.0	V	
C_T	V _R =0, f=1.0MHz		6.0		6.0	pF	

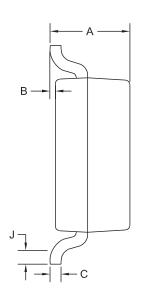
R2 (5-August 2010)

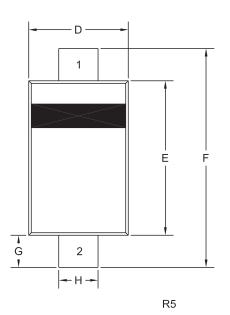
CMHD457A CMHD459A

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SOD-123 CASE - MECHANICAL OUTLINE





LEAD CODE

- 1) Cathode
- 2) Anode

MARKING CODE CMHD457A: C7A CMHD459A: C9A

DIMENSIONS								
	INC	HES	MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.037	0.053	0.95	1.35				
В	0.000	0.005	0.00	0.12				
С	-	0.008	-	0.20				
D	0.055	0.071	1.40	1.80				
Е	0.098	0.110	2.50	2.80				
F	0.142	0.154	3.60	3.90				
G	0.016	-	0.40	-				
Н	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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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 quick 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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