

CMHD457A
CMHD459A

SURFACE MOUNT
LOW LEAKAGE SILICON DIODE



SOD-123 CASE

CentralTM
Semiconductor Corp.

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 CODE:

CMHD457A: C7A
CMHD459A: C9A

MAXIMUM RATINGS: (T_A=25°C)

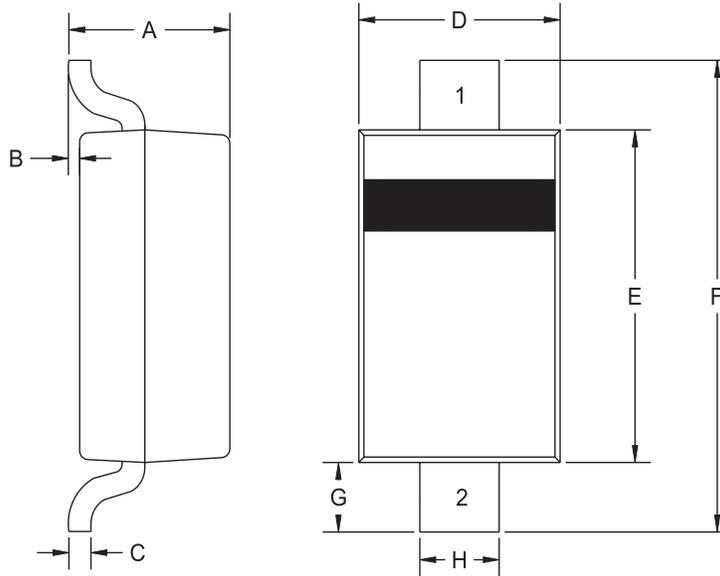
	SYMBOL	CMHD457A	CMHD459A	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	70	200	V
Peak Working Reverse Voltage	V _{RWM}	60	175	V
Average Forward Current	I _O		200	mA
Forward Steady-State Current	I _F		500	mA
Peak Forward Surge Current (1.0µs pulse)	I _{FSM}		4.0	A
Power Dissipation	P _D		400	mW
Operating 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)

SYMBOL	TEST CONDITIONS	CMHD457A		CMHD459A		UNITS
		MIN	MAX	MIN	MAX	
BV _R	I _R =100µA		70		200	V
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
V _F	I _F =100mA		1.0		1.0	V
C _T	V _R =0, f=1.0MHz		6.0		6.0	pF

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SOD-123 - MECHANICAL OUTLINE



R4

LEAD CODE

- 1) Cathode
- 2) Anode

MARKING CODE

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DIMENSIONS				
SYMBOL	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

SOD-123 (REV:R4)

R0 (11-August 2004)