

CSHD8-60
CSHD8-100
CSHD8-200

**SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
8.0 AMP, 60 THRU 200 VOLT**



DPAK CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD8-60, CSHD8-100 and CSHD8-200 are silicon Schottky rectifiers with an 8.0 Amp forward current rating and a very high reverse voltage capability. The reverse capability of these devices makes them the ideal solution for high efficiency, high voltage applications such as solid state lighting, DC-DC converters, and a host of other power management uses.

MARKING: FULL PART NUMBER

FEATURES:

- High reverse voltage capability
- Energy efficient, low forward voltage (V_F)
- Low reverse leakage at elevated temperature
- High surge capability

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Peak Repetitive Reverse Voltage

DC Blocking Voltage

RMS Reverse Voltage

Average Forward Current ($T_L=75^\circ\text{C}$)

Peak Forward Surge Current, $t_p=8.3\text{ms}$

Voltage Rate of Change (Rated V_R)

Operating and Storage Junction Temperature

Typical Thermal Resistance

SYMBOL	CSHD8-60	CSHD8-100	CSHD8-200	UNITS
V_{RRM}	60	100	200	V
V_R	60	100	200	V
$V_{R(RMS)}$	42	70	140	V
I_O		8.0		A
I_{FSM}		85		A
dv/dt		10,000		V/ μs
T_J, T_{stg}		-65 to +175		$^\circ\text{C}$
θ_{JL}		5.0		$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

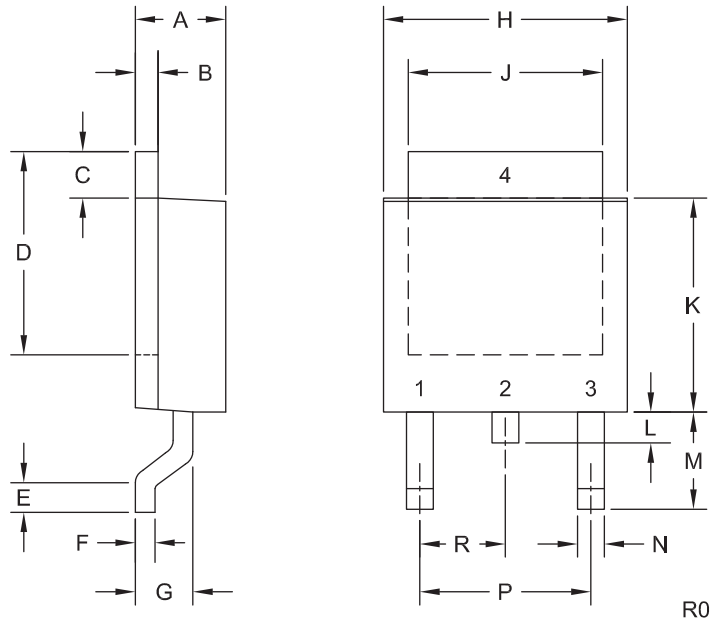
SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$	50	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_J=100^\circ\text{C}$	20	mA
V_F	$I_F=8.0\text{A}$ (CSHD8-60)	0.75	V
V_F	$I_F=8.0\text{A}$ (CSHD8-100)	0.80	V
V_F	$I_F=8.0\text{A}$ (CSHD8-200)	0.90	V

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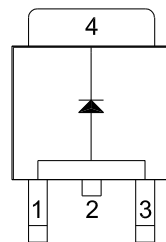
DPAK CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Anode
 - 2) Cathode
 - 3) Anode
 - 4) Cathode
- Pin 2 is common to the tab (4)

MARKING: FULL PART NUMBER



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.083	0.108	2.10	2.75
B	0.016	0.032	0.40	0.81
C	0.035	0.063	0.89	1.60
D	0.203	0.228	5.15	5.79
E	0.020	-	0.51	-
F	0.018	0.024	0.45	0.60
G	0.051	0.071	1.30	1.80
H	0.248	0.268	6.30	6.81
J	0.197	0.217	5.00	5.50
K	0.209	0.245	5.30	6.22
L	0.025	0.040	0.64	1.02
M	0.090	0.115	2.30	2.91
N	0.012	0.045	0.30	1.14
P	0.180		4.60	
R	0.090		2.30	

DPAK (REV: R0)

R4 (11-June 2015)

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SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R4 (11-June 2015)