

CSHD8-60  
CSHD8-100  
CSHD8-200

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



**DPAK CASE**



[www.centrasemi.com](http://www.centrasemi.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:** ( $T_A=25^\circ\text{C}$ )

	SYMBOL	CSHD8-60	CSHD8-100	CSHD8-200	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	60	100	200	V
DC Blocking Voltage	$V_R$	60	100	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	70	140	V
Average Forward Current ( $T_L=75^\circ\text{C}$ )	$I_O$		8.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$		85		A
Voltage Rate of Change (Rated $V_R$ )	$dv/dt$		10,000		V/ $\mu\text{s}$
Operating and Storage Junction Temperature	$T_J, T_{stg}$		-65 to +175		$^\circ\text{C}$
Typical Thermal Resistance	$\theta_{JL}$		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	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_J=100^\circ\text{C}$	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

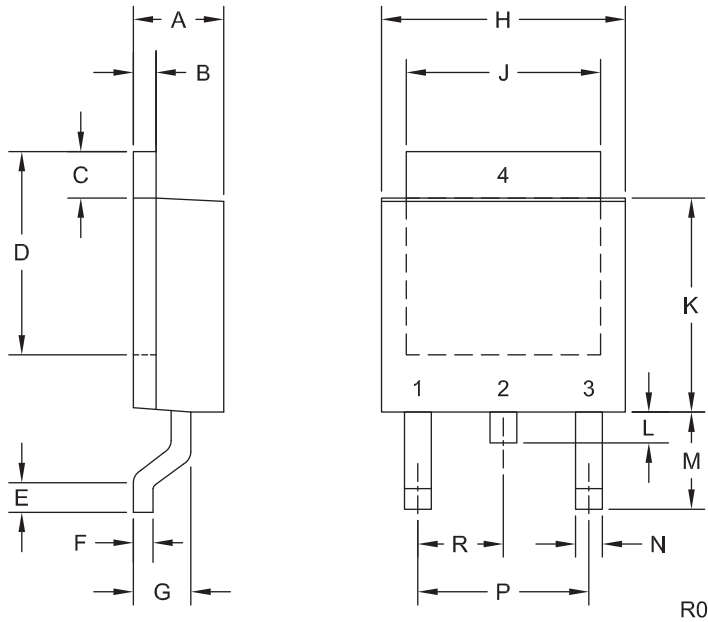
R4 (11-June 2015)

CSHD8-60  
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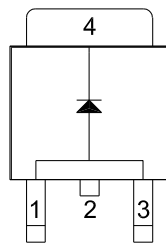
**DPAK CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

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

**MARKING: FULL PART NUMBER**



SYMBOL	DIMENSIONS			
	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)



## 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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### 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).

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### CONTACT US

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