CSHD8-60
CSHD8-100
CSHD8-200

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



DPAK CASE

Central Semiconductor Corp.

www.centralsemi.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°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°C)	I_O		8.0		A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}		85		A
Voltage Rate of Change (Rated V_R)	dv/dt		10,000		V/μs
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +175		°C
Typical Thermal Resistance	Θ_{JL}		5.0		°C/W

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

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

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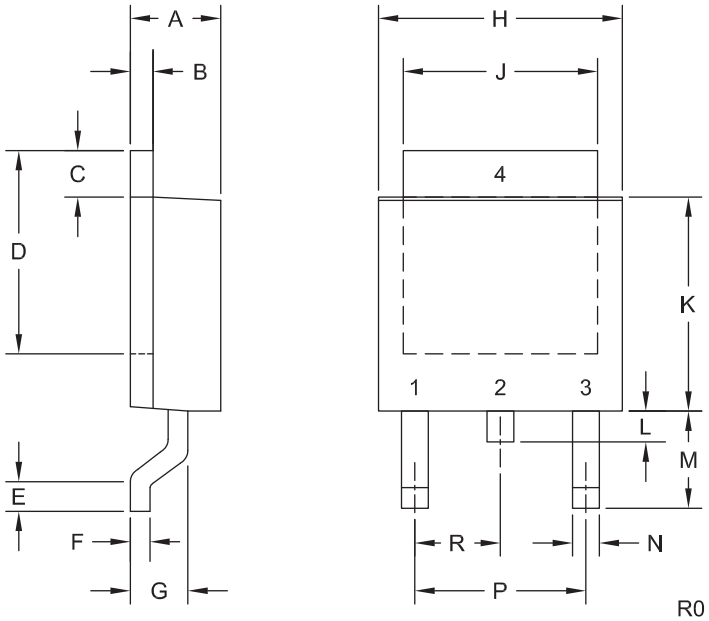
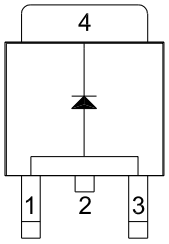
DPAK CASE - MECHANICAL OUTLINE



LEAD CODE:
1) Anode
2) Cathode
3) Anode
4) Cathode
Pin 2 is common to the tab (4)

MARKING: FULL PART NUMBER



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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

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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