CSHD8-60 CSHD8-100 CSHD8-200

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



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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) Peak Repetitive Reverse Voltage	SYMBOL V _{RRM}	CSHD8-60 60	CSHD8-100 100	200	UNITS 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)	IO		8.0		Α
Peak Forward Surge Current, tp=8.3ms	IFSM		85		Α
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	$\Theta_{. II}$		5.0		°C/W

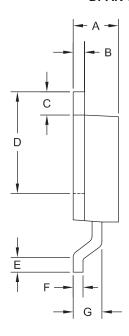
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted) SYMBOL **TEST CONDITIONS UNITS** V_R=Rated V_{RRM} 50 I_R μΑ I_R V_R=Rated V_{RRM}. T_J=100°C 20 mΑ I_F=8.0A (CSHD8-60) 0.75 ٧ V_{F} I_F=8.0A (CSHD8-100) 0.80 V_{F} V V_{F} I_F=8.0A (CSHD8-200) 0.90

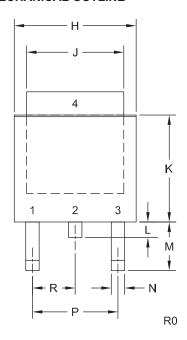
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DPAK CASE - MECHANICAL OUTLINE



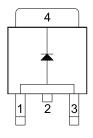


LEAD CODE:

- 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			
Α	0.083	0.108	2.10	2.75			
В	0.016	0.032	0.40	0.81			
С	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			
Н	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			
М	0.090	0.115	2.30	2.91			
N	0.012	0.045	0.30	1.14			
Р	0.180		4.60				
R	0.090		2.30				
DPAK (REV: RO							

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 guick 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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