CHD8-06

SURFACE MOUNT SILICON HYPERFAST POWER RECTIFIER 8.0 AMP, 600 VOLT



APPLICATIONS:

- Power factor correction
- Motor control



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CHD8-06 is a high voltage silicon HyperFast power rectifier designed for extremely fast switching applications.

MARKING: FULL PART NUMBER

FEATURES:

- · High current capability
- High surge capacity
- HyperFast recovery time (22ns TYP)
- High voltage

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

· //	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
DC Blocking Voltage	v_R	600	V
RMS Reverse Voltage	V _{R(RMS)}	420	V
Average Forward Current (T _L =100°C)	lo	8.0	Α
Peak Forward Surge Current, tp=8.3ms	IFSM	70	Α
Operating and Storage Junction Temperature	$T_{J_{I}}T_{stg}$	-65 to +175	°C
Thermal Resistance	$\Theta_{\sf JL}$	5.0	°C/W

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

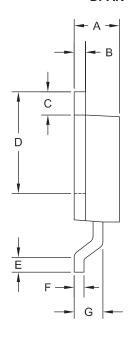
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SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS			
I_R	V _R =600V		10	μΑ			
I_R	V _R =600V, T _A =150°C		500	μΑ			
V_{F}	I _F =8.0A	1.9	2.2	V			
CJ	V _R =4.0V, f=1.0MHz	26	35	pF			
t _{rr}	I _E =8.0A, V _R =400V, di/dt=200A/µs	22	25	ns			

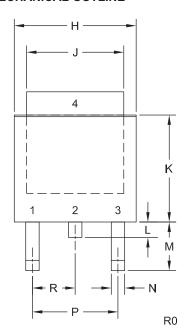
CHD8-06

SURFACE MOUNT SILICON **HYPERFAST** POWER RECTIFIER 8.0 AMP, 600 VOLT



DPAK CASE - MECHANICAL OUTLINE

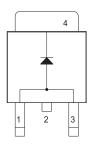




LEAD CODE:

- 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			
M	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: R0)							

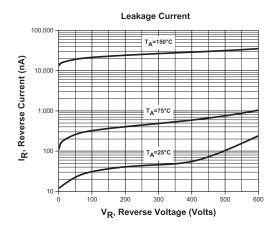
R3 (31-August 2016)

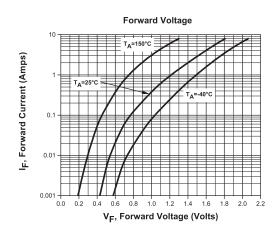
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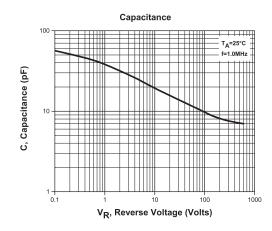
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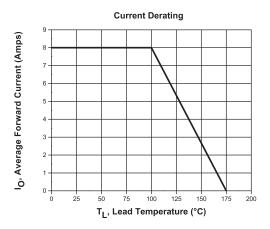


TYPICAL ELECTRICAL CHARACTERISTICS









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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