CSHD6-100C

SURFACE MOUNT SILICON DUAL, COMMON CATHODE HIGH VOLTAGE SCHOTTKY RECTIFIER 6.0 AMP, 100 VOLT





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD6-100C is a silicon Schottky rectifier designed for high voltage applications requiring a low forward voltage drop.

MARKING: FULL PART NUMBER

MAXIMUM F	ATINGS: (T _C =25°C unless otherwise	noted) SYMBOL		UNITS		
Peak Repetitive Reverse Voltage			100	V		
Average Rectified Forward Current (T _C =120°C)		IO	6.0	А		
Peak Forward Surge Current, tp=10ms		IFSM	50	А		
Peak Repetitive Reverse Surge Current, tp=2.0µs		IRRM	1.0	А		
Critical Rate of Rise of Reverse Voltage		dv/dt	10,000	V/µs		
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C		
Thermal Resistance		ΘJC	3.5	°C/W		
ELECTRICAL CHARACTERISTICS PER DIODE: (T _C =25°C unless otherwise noted)						
SYMBOL I _R	TEST CONDITIONS V _R =100V	TYP 0.34	MAX 30	UNITS μΑ		
I _R	V _R =100V, T _C =125°C	0.39	10			
				mA		
VF	I _F =3.0A	0.73	0.75	V		
V _F V _F	I _F =3.0A I _F =3.0A, T _C =125°C	0.73 0.63				
	1		0.75	V		
V _F	I _F =3.0A, T _C =125°C	0.63	0.75 0.70	V V		

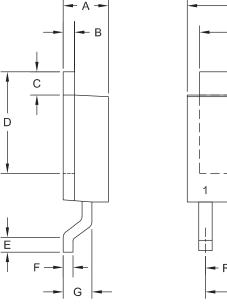
R7 (1-March 2016)

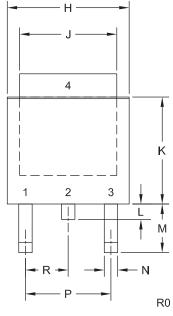
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DPAK CASE - MECHANICAL OUTLINE

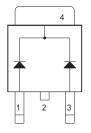




LEAD CODE:

- 1) Anode 1
- 2) Cathode
- 3) Anode 2
- 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			
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: R0)							

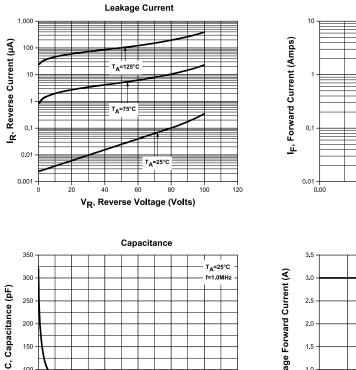
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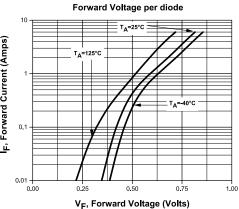


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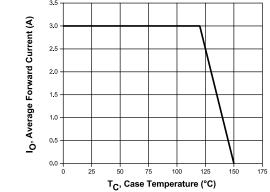




TYPICAL ELECTRICAL CHARACTERISTICS



Current Derating



120

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250

200

150 -

100

50

0 ò

20

40

60

V_R, Reverse Voltage (Volts)

80

100

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

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