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.





MAXIMUM RATINGS: (T_C=25°C unless otherwise noted) SYMBOL UNITS Peak Repetitive Reverse Voltage 100 V_{RRM} V Average Rectified Forward Current (T_C=120°C) I_{O} 6.0 Α Peak Forward Surge Current, tp=10ms 50 Α I_{FSM} Peak Repetitive Reverse Surge Current, tp=2.0µs 1.0 Α IRRM Critical Rate of Rise of Reverse Voltage dv/dt 10,000 V/µs Operating and Storage Junction Temperature T_J, T_{stq} -65 to +150 °C Thermal Resistance $\Theta \mathsf{JC}$ 3.5 °C/W

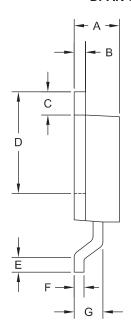
ELECTRICA	L CHARACTERISTICS PER DI	IODE: (T _C =25°C unless	otherwise noted)	
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =100V	0.34	30	μΑ
I_{R}	V _R =100V, T _C =125°C	0.39	10	mA
VF	I _F =3.0A	0.73	0.75	V
V_{F}	I _F =3.0A, T _C =125°C	0.63	0.70	V
V_{F}	I _F =6.0A	0.82	1.10	V
VF	I _F =6.0A, T _C =125°C	0.72	1.05	V
CJ	$V_R=0$, f=1.0MHz	321		pF

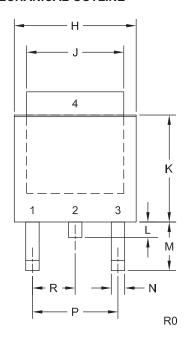
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DPAK CASE - MECHANICAL OUTLINE



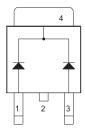


LEAD CODE:

- 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			
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	R 0.090		2.30				
DPAK (REV: RO							

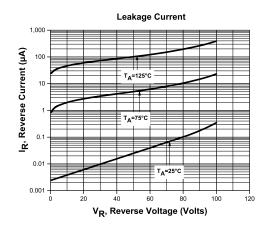
R7 (1-March 2016)

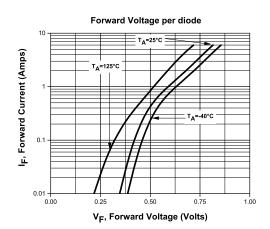
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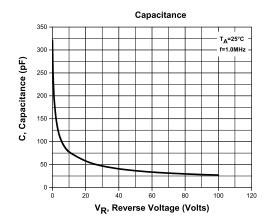
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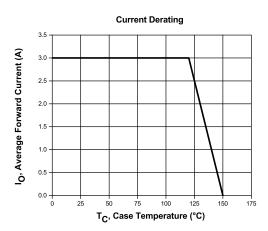


TYPICAL ELECTRICAL CHARACTERISTICS









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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