CSHD6-100C

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

DPAK CASE

www.centralsemi.com

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 RATINGS: (T_C=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Forward Current (T_C=120°C)	I_O	6.0	A
Peak Forward Surge Current, tp=10ms	I_{FSM}	50	A
Peak Repetitive Reverse Surge Current, tp=2.0μs	I_{RRM}	1.0	A
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	Θ_{JC}	3.5	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R=100V	0.34	30	μA
I_R	V_R=100V, T_C=125°C	0.39	10	mA
V_F	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
V_F	I_F=6.0A, T_C=125°C	0.72	1.05	V
C_J	V_R=0, f=1.0MHz	321		pF

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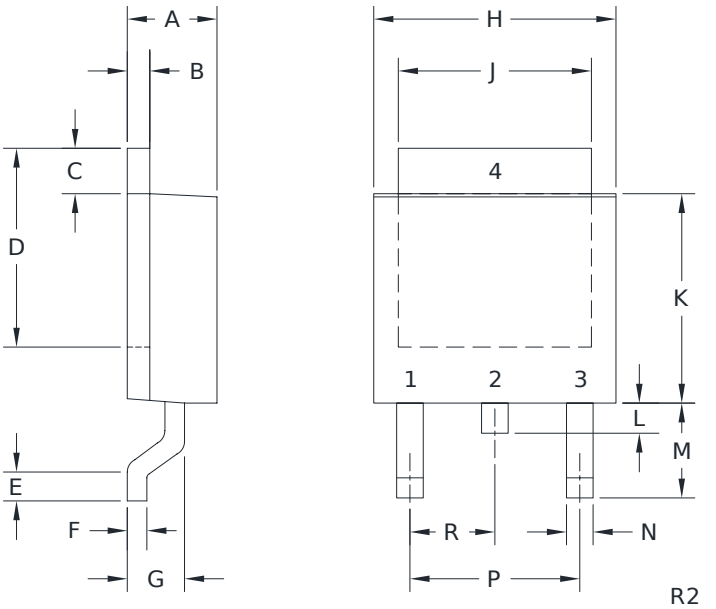
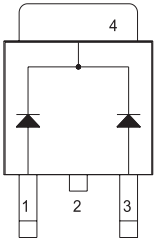
DPAK CASE - MECHANICAL OUTLINE



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
A	0.083	0.108	2.10	2.75
B	0.016	0.035	0.40	0.89
C	0.035	0.063	0.89	1.60
D	0.203	0.228	5.15	5.79
E	0.020	-	0.51	-
F	0.016	0.024	0.40	0.60
G	0.061		1.55	
H	0.248	0.268	6.30	6.81
J	0.195	0.217	4.95	5.50
K	0.209	0.245	5.30	6.22
L	0.033		0.83	
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:R2)

R8 (23-August 2023)

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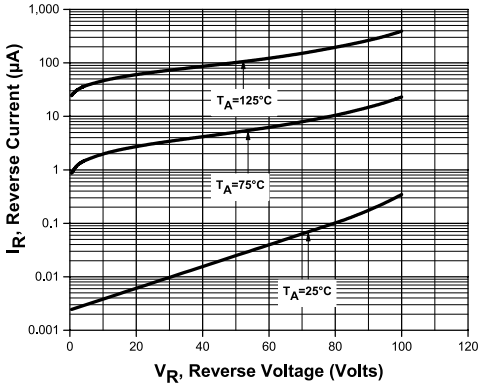
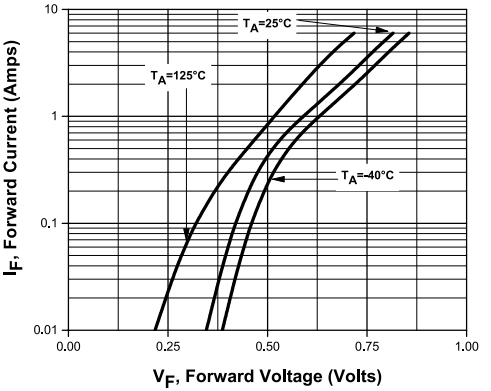
TYPICAL ELECTRICAL CHARACTERISTICS

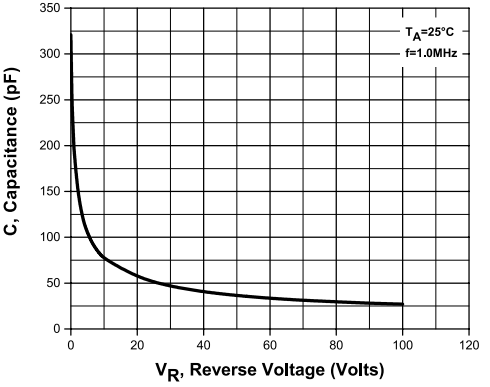
Leakage Current



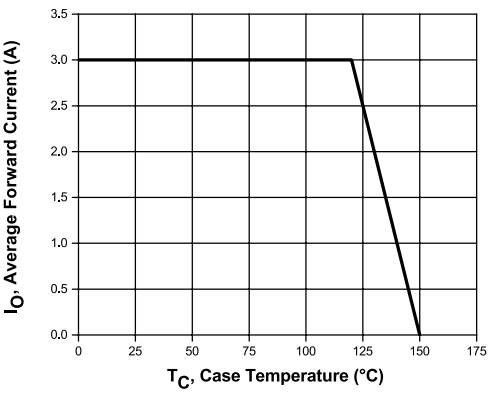
Forward Voltage per diode



Capacitance



Current Derating



R8 (23-August 2023)

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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