CSHD6-100C

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



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



SYMBOL		UNITS
V_{RRM}	100	V
IO	6.0	Α
I _{FSM}	50	Α
^I RRM	1.0	Α
dv/dt	10,000	V/µs
T _J , T _{stg}	-65 to +150	°C
ΘJC	3.5	°C/W
	VRRM IO IFSM IRRM dv/dt T _J , T _{Stg}	VRRM 100 IO 6.0 IFSM 50 IRRM 1.0 dv/dt 10,000 T _J , T _{stg} -65 to +150

 $\textbf{ELECTRICAL CHARACTERISTICS PER DIODE:} \ (\textbf{T}_{\hbox{\mathbb{C}}} = 25^{\circ} \text{C unless otherwise noted})$

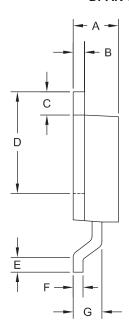
SYMBOL I _R	TEST CONDITIONS V _R =100V	TYP 0.34	MAX 30	UNITS μΑ
I_{R}	V _R =100V, T _C =125°C	0.39	10	mA
V_{F}	I _F =3.0A	0.73	0.75	V
V_{F}	I _F =3.0A, T _C =125°C	0.63	0.70	V
V_{F}	I _F =6.0A	0.82	1.10	V
V_{F}	I _F =6.0A, T _C =125°C	0.72	1.05	V
C_{J}	$V_R=0$, f=1.0MHz	321		pF

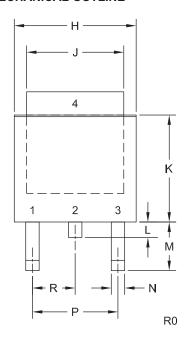
CSHD6-100C

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



DPAK CASE - MECHANICAL OUTLINE



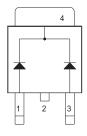


LEAD CODE:

- 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	0.090		2.	30			
DPAK (REV: R							

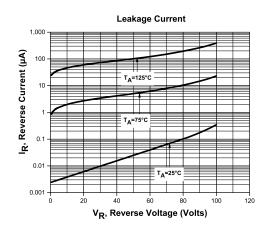
R7 (1-March 2016)

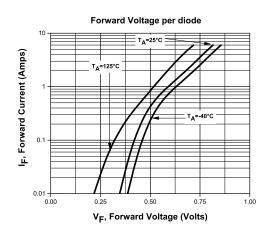
CSHD6-100C

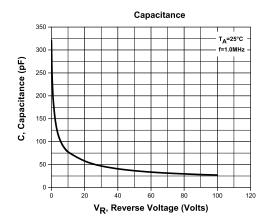
SURFACE MOUNT SILICON DUAL, COMMON CATHODE HIGH VOLTAGE SCHOTTKY RECTIFIER 6.0 AMP, 100 VOLT

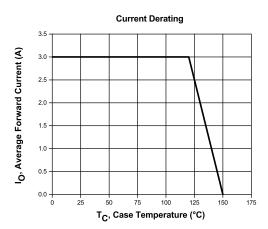


TYPICAL ELECTRICAL CHARACTERISTICS









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

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

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)