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.





 $\textbf{MAXIMUM RATINGS:} \ (T_{\hbox{\scriptsize C}} = 25 ^{\circ} \hbox{\scriptsize C unless otherwise noted})$ SYMBOL UNITS Peak Repetitive Reverse Voltage 100 V_{RRM} V Average Rectified Forward Current (T_C=120°C) 6.0 Α lO Peak Forward Surge Current, tp=10ms 50 Α IFSM 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 -65 to +150 °C T_J, T_{stq} Thermal Resistance 3.5 °C/W Θ JC

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

SYMBOL TEST CONDITIONS TYP MAX

I_R V_R=100V 0.34 30

μΑ V_R=100V, T_C=125°C 10 0.39 mA I_R 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 I_F=6.0A 0.82 1.10 V V_{F} V_{F} I_F=6.0A, T_C=125°C 0.72 1.05 V рF $V_R=0$, f=1.0MHz321 C_{J}

R7 (1-March 2016)

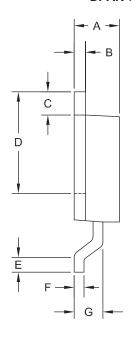
UNITS

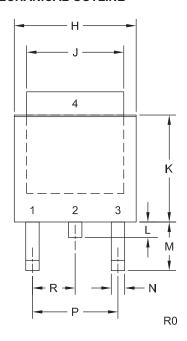
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DPAK CASE - MECHANICAL OUTLINE



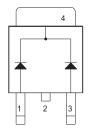


LEAD CODE:

- 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
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: I				(EV: R0)

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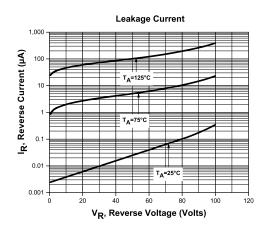
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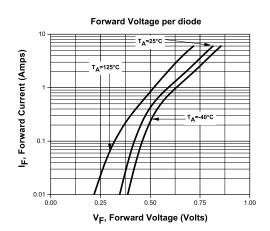
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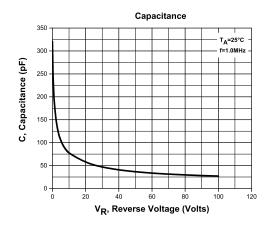
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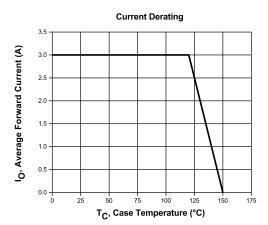


TYPICAL ELECTRICAL CHARACTERISTICS









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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

- 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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