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 RATINGS: (T _C =25°C unless otherwise noted) SYMBOL							
Peak Repetitive Reverse Voltage		VRRM	100	UNITS 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	TYP	MAX	UNITS			
'R	V _R =100V	0.34	30	μΑ			
I _R	V _R =100V V _R =100V, T _C =125°C	0.34 0.39					
	IX		30	μA			
I _R	V _R =100V, T _C =125°C	0.39	30 10	μA mA			
I _R V _F	V _R =100V, T _C =125°C I _F =3.0A	0.39 0.73	30 10 0.75	μA mA V			
I _R V _F V _F	V _R =100V, T _C =125°C I _F =3.0A I _F =3.0A, T _C =125°C	0.39 0.73 0.63	30 10 0.75 0.70	μA mA V V			

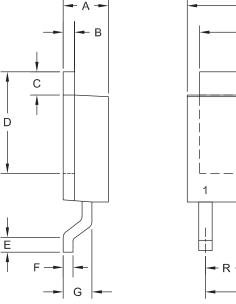
R7 (1-March 2016)

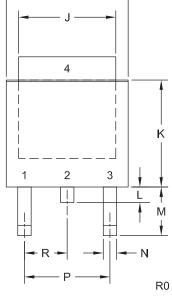
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DPAK CASE - MECHANICAL OUTLINE



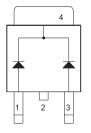


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LEAD CODE:

- 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		
А	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)						

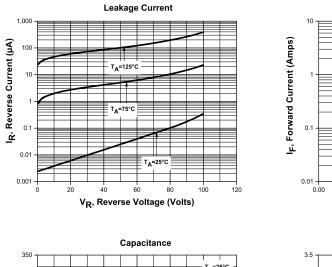
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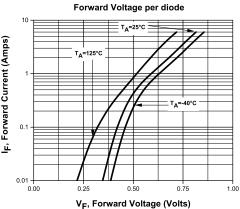


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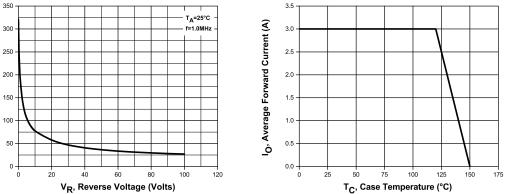




TYPICAL ELECTRICAL CHARACTERISTICS



Current Derating



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C, Capacitance (pF)

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CONTACT US

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