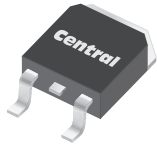


**CSHD12-60C**

**SURFACE MOUNT SILICON  
DUAL, COMMON CATHODE  
SCHOTTKY RECTIFIER  
12 AMP, 60 VOLT**



[www.centrasemi.com](http://www.centrasemi.com)



**DPAK CASE**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD12-60C is a silicon Schottky rectifier designed for applications requiring a low forward voltage drop. This device is manufactured with two 6.0 Amp Schottky rectifiers assembled in a common cathode configuration.

**MARKING: FULL PART NUMBER****FEATURES:**

- Low forward voltage
- High surge capability
- High current density
- Low reverse leakage loss

**APPLICATIONS:**

- DC-DC output rectification
- Reverse polarity protection
- Voltage clamping

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	60	V
DC Blocking Voltage	$V_R$	60	V
Average Rectified Forward Current ( $T_C=75^\circ\text{C}$ )	$I_O$	12	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$	100	A
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$	3.0	$^\circ\text{C}/\text{W}$

**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

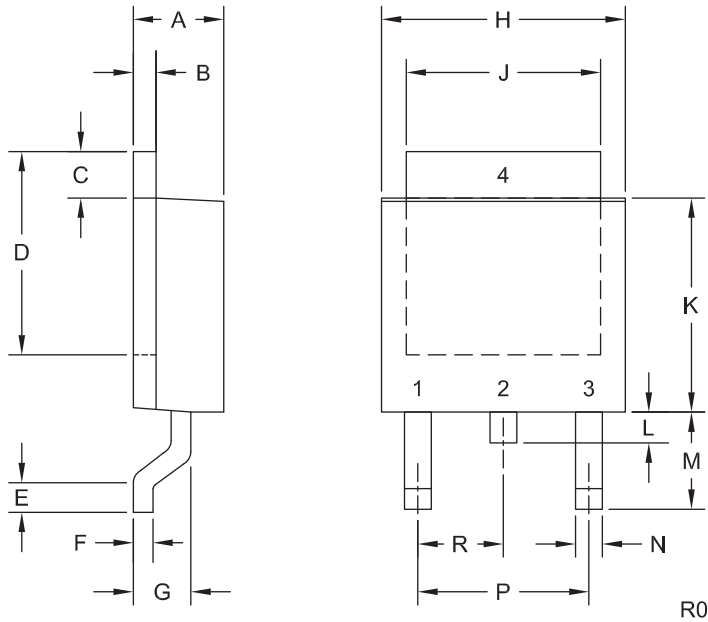
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
$I_R$	$V_R=60\text{V}$	2.0	50	$\mu\text{A}$
$I_R$	$V_R=60\text{V}, T_J=100^\circ\text{C}$		20	mA
$V_F$	$I_F=6.0\text{A}$	0.72	0.75	V
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$	15		ns

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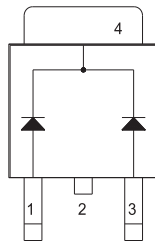
**DPAK CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Anode 1
  - 2) Cathode
  - 3) Anode 2
  - 4) Cathode
- Pin 2 is common to tab (4)

**MARKING: FULL PART NUMBER**



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.083	0.108	2.10	2.75
B	0.016	0.032	0.40	0.81
C	0.035	0.063	0.89	1.60
D	0.203	0.228	5.15	5.79
E	0.020	-	0.51	-
F	0.018	0.024	0.45	0.60
G	0.051	0.071	1.30	1.80
H	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
P	0.180		4.60	
R	0.090		2.30	

DPAK (REV: R0)

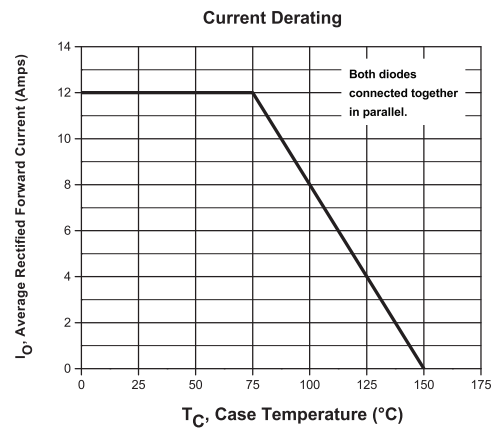
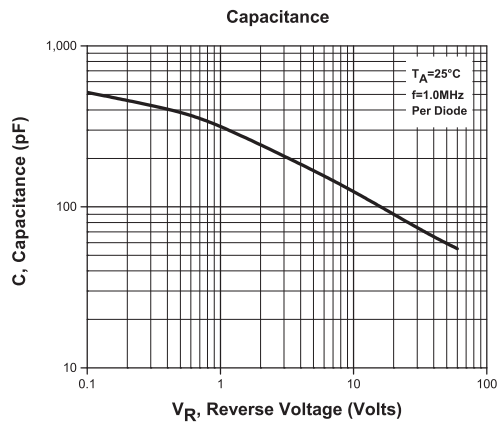
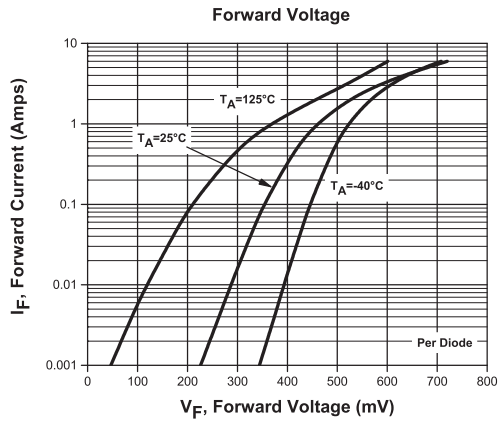
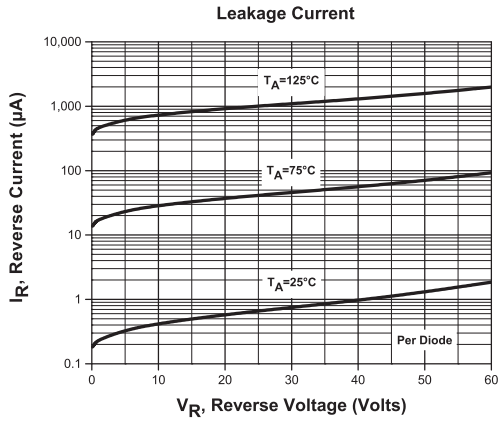
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TYPICAL ELECTRICAL CHARACTERISTICS



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