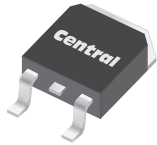


CSHD12-60C

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

**DPAK CASE**www.centrasemi.com**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**APPLICATIONS:**

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

FEATURES:

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

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	θ_{JC}	3.0	$^{\circ}\text{C/W}$

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

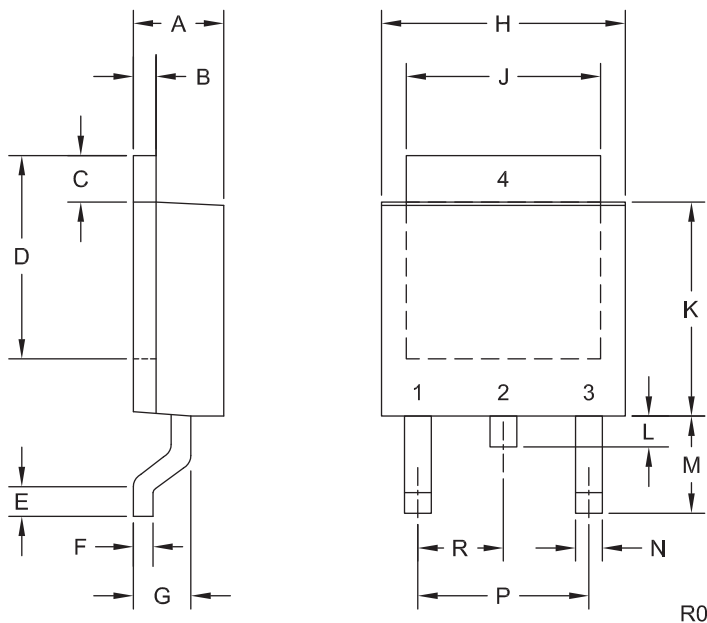
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=60\text{V}$	2.0	50	μA
I_R	$V_R=60\text{V}, T_J=100^{\circ}\text{C}$		20	mA
V_F	$I_F=6.0\text{A}$	0.72	0.75	V
t_{rr}	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$	15		ns

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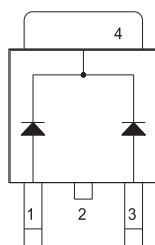
DPAK CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING: FULL PART NUMBER



DIMENSIONS				
SYMBOL	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)

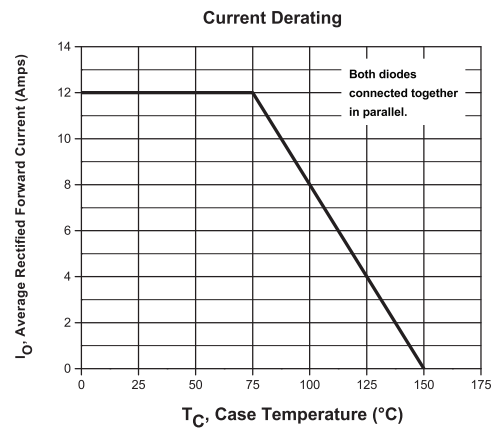
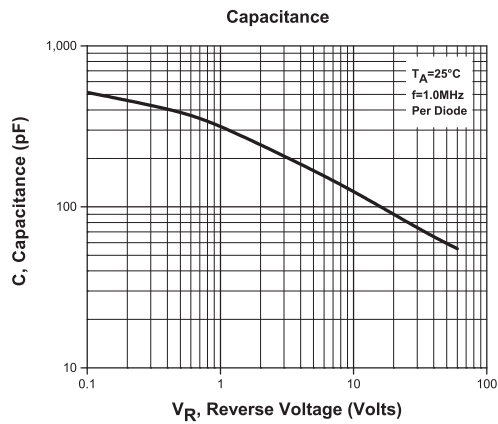
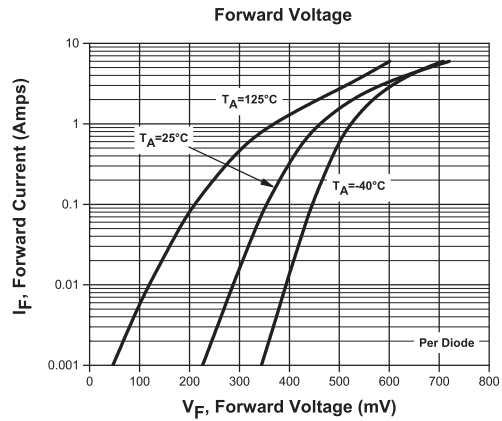
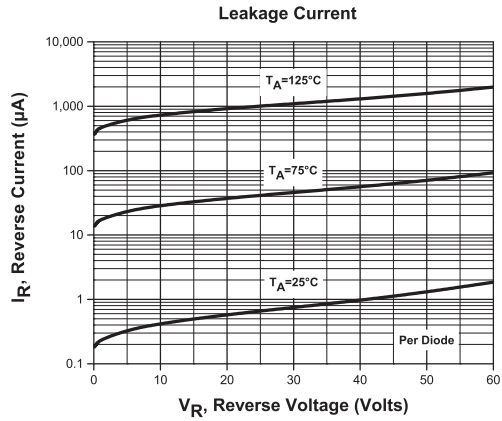
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TYPICAL ELECTRICAL CHARACTERISTICS



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