

CSHD10-45L

**SURFACE MOUNT SILICON  
POWER SCHOTTKY RECTIFIER  
10 AMP, 45 VOLTS**

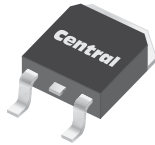


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**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD10-45L is a Silicon Power Schottky Rectifier designed for surface mount power applications requiring a low forward voltage drop.

**DPAK  
POWER!**



**DPAK RECTIFIER CASE**

**MARKING: FULL PART NUMBER**

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

	<b>SYMBOL</b>		<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	45	V
Average Rectified Forward Current ( $T_C=120^\circ\text{C}$ )	$I_O$	10	A
Peak Forward Surge Current, $t_p=10\text{ms}$	$I_{FSM}$	200	A
Peak Repetitive Reverse Surge Current, $t_p=2.0\mu\text{s}$	$I_{RRM}$	1.0	A
Critical Rate of Rise of Reverse Voltage	$dv/dt$	10,000	V/ $\mu\text{s}$
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$	3.5	$^\circ\text{C/W}$

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

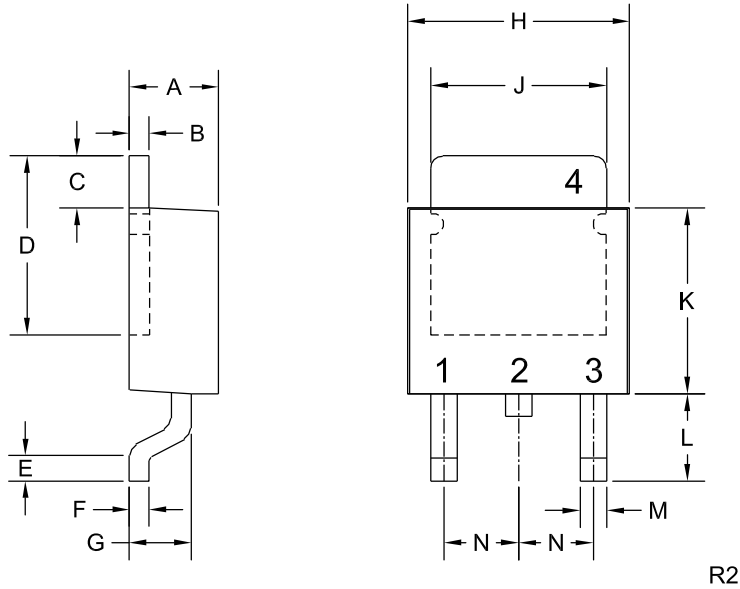
<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>UNIT</b>
$I_R$	$V_R=45\text{V}$		40	100	$\mu\text{A}$
$I_R$	$V_R=45\text{V}, T_C=125^\circ\text{C}$			15	mA
$V_F$	$I_F=10\text{A}$		0.575	0.75	V
$V_F$	$I_F=10\text{A}, T_C=125^\circ\text{C}$			0.55	V

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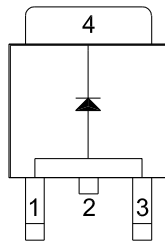
**DPAK RECTIFIER CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Anode
  - 2) Cathode
  - 3) Anode
  - 4) Cathode
- Pin 2 is Common to the Tab (4).

**MARKING: FULL PART NUMBER**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.083	0.108	2.10	2.75
B	0.016	0.024	0.40	0.60
C	0.063		1.60	
D	0.203	0.219	5.15	5.55
E	0.039		1.00	
F	0.020		0.50	
G	0.051	0.071	1.30	1.80
H	0.248	0.268	6.30	6.80
J	0.197	0.217	5.00	5.50
K	0.209	0.224	5.30	5.70
L	0.090	0.106	2.30	2.70
M	0.012	0.031	0.30	0.80
N	0.091		2.30	

DPAK RECTIFIER (REV: R2)

R6 (17-February 2010)