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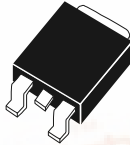
Central
Semiconductor Corp.



CSHD10-45L

**POWER SCHOTTKY RECTIFIER
10 AMPS, 45 VOLTS**

DPAK
POWER!



DPAK CASE

DESCRIPTION:

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

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

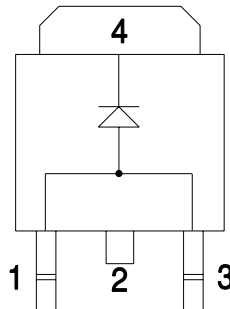
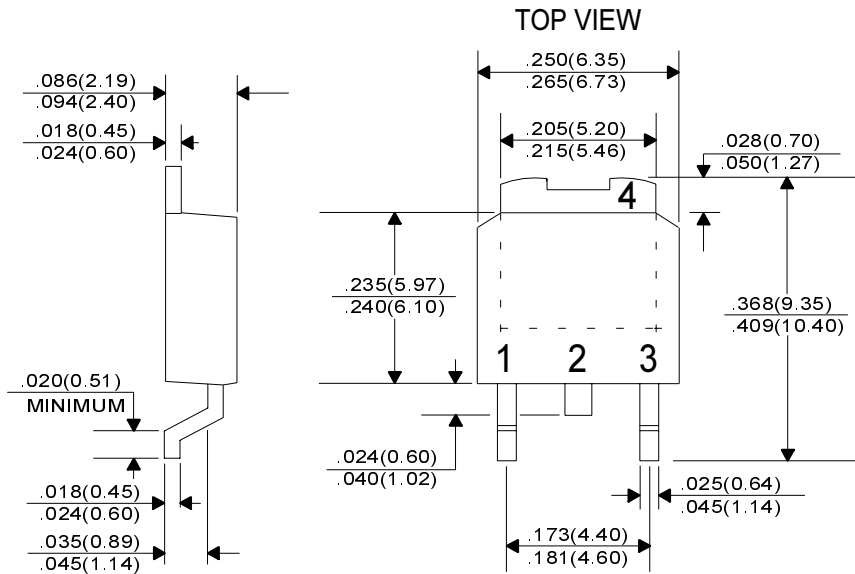
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Average Rectified Forward Current ($T_C=120^{\circ}\text{C}$)	I_O	10	A
Peak Forward Surge Current ($t_p=10\text{ms}$)	I_{FSM}	200	A
Peak Repetitive Reverse Surge Current ($t_p=2\mu\text{s}$)	I_{RRM}	1.0	A
Critical Rate of Rise of Reverse Voltage	dV/dt	10,000	V/ μs
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	θ_{JC}	3.5	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
I_R	$V_R=45\text{V}$		40	100	μA
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



All Dimensions in Inches (mm).



LEAD CODE:

- 1) ANODE
- 2) CATHODE
- 3) ANODE
- 4) CATHODE

PIN 2 IS COMMON TO THE TAB (4).