

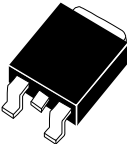
CSHD10-45L

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.

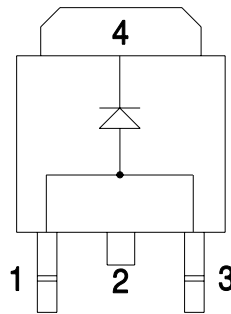
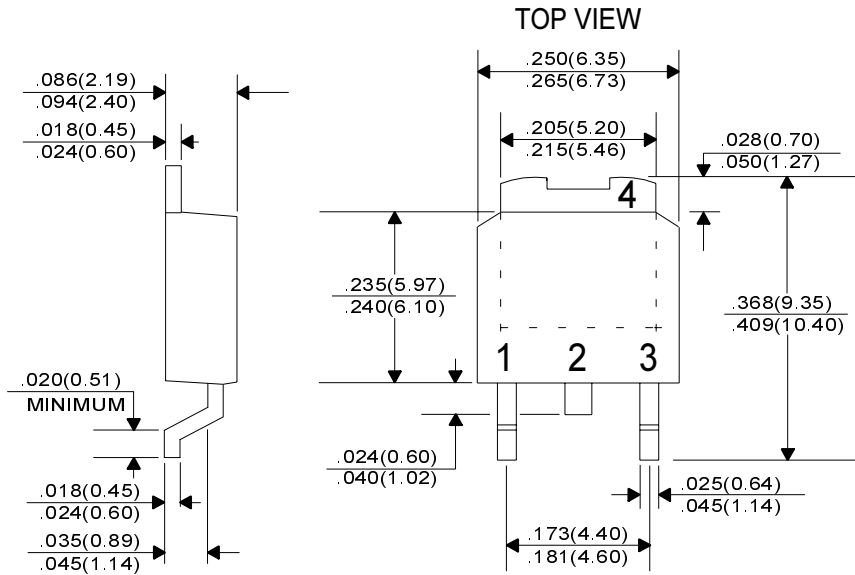
**MAXIMUM RATINGS:** (T<sub>C</sub>=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	45	V
Average Rectified Forward Current (T <sub>C</sub> =120°C)	I <sub>O</sub>	10	A
Peak Forward Surge Current (t <sub>p</sub> =10ms)	I <sub>FSM</sub>	200	A
Peak Repetitive Reverse Surge Current (t <sub>p</sub> =2μs)	I <sub>RRM</sub>	1.0	A
Critical Rate of Rise of Reverse Voltage	dV/dt	10,000	V/μs
Operating and Storage			
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	θ <sub>JC</sub>	3.5	°C/W

**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>C</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
I <sub>R</sub>	V <sub>R</sub> =45V		40	100	μA
I <sub>R</sub>	V <sub>R</sub> =45V, T <sub>C</sub> =125°C			15	mA
V <sub>F</sub>	I <sub>F</sub> =10A		0.575	0.75	V
V <sub>F</sub>	I <sub>F</sub> =10A, T <sub>C</sub> =125°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).**