

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CRSH35-3  
CRSH35-4  
CRSH35-5

SCHOTTKY BARRIER RECTIFIER  
35 AMPS, 30 TO 50 VOLTS

JEDEC DO-4 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH35-3 series types are schottky barrier rectifiers mounted in a hermetically sealed metal stud package, featuring a low forward voltage drop and instantaneous reverse recovery times.

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

	SYMBOL	CRSH35-3	CRSH35-4	CRSH35-5	UNIT
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	40	50	V
DC Blocking Voltage	V <sub>R</sub>	30	40	50	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	21	28	35	V
Average Forward Current (T <sub>C</sub> =150°C)	I <sub>O</sub>		35		A
Peak Forward Surge Current (8.3ms)	I <sub>FSM</sub>		600		A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>STG</sub>		-55 TO +175		°C
Thermal Resistance	θ <sub>JC</sub>		1.5		°C/W

## ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		4.0	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>C</sub> =125°C		25	mA
V <sub>F</sub>	I <sub>F</sub> =30A		0.63	V
V <sub>F</sub>	I <sub>F</sub> =30A, T <sub>C</sub> =175°C		0.49	V

