

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

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Manufacturers of World Class Discrete Semiconductors

CRSH25-2  
THRU  
CRSH25-6

SCHOTTKY BARRIER RECTIFIER  
25 AMPS, 20 TO 60 VOLTS

JEDEC DO-4 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH25-2 series types are schottky barrier rectifiers mounted in a hermetically sealed metal stud package, featuring a low forward voltage drop and instantaneous reverse recovery time.

## MAXIMUM RATINGS ( $T_C = 25^\circ\text{C}$ )

	<u>SYMBOL</u>	<u>CRSH</u> <u>25-2</u>	<u>CRSH</u> <u>25-3</u>	<u>CRSH</u> <u>25-4</u>	<u>CRSH</u> <u>25-5</u>	<u>CRSH</u> <u>25-6</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	50	60	V
DC Blocking Voltage	$V_R$	20	30	40	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Forward Current ( $T_C = 150^\circ\text{C}$ )	$I_O$				25		A
Peak Forward Surge Current (8.3ms pulse)	$I_{FSM}$				800		A
Operating and Storage							
Junction Temperature	$T_J, T_{stg}$			-55 to +175			$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$				1.8		$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R = \text{Rated } V_{RRM}$		2.0	mA
$I_R$	$V_R = \text{Rated } V_{RRM}, T_C = 150^\circ\text{C}$		150	mA
$V_F$	$I_F = 25\text{A}$		0.58	V
$V_F$	$I_F = 25\text{A}, T_C = 175^\circ\text{C}$		0.53	V