

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

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Manufacturers of World Class Discrete Semiconductors

CRSH5 SERIES

SCHOTTKY BARRIER RECTIFIERS  
5.0 AMP, 20 THRU 80 VOLTS

CASE 103

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH5 Series types are Schottky Barrier Rectifiers mounted in a Axial lead epoxy case using metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

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

	CRSH5 SYMBOL	CRSH5 -2	CRSH5 -3	CRSH5 -4	CRSH5 -5	CRSH5 -6	CRSH5 -8	UNIT
Peak Repetitive Voltage	$V_{RRM}$	20	30	40	50	60	80	V
DC Blocking Voltage	$V_R$	20	30	40	50	60	80	V
RMS Reverse Voltage	$V_R(\text{RMS})$	14	21	28	35	42	56	V
Average Forward Current ( $T_L=100^\circ\text{C}$ )	$I_0$			5.0				A
Peak Forward Surge Current	$I_{FSM}$			250				A
Operating and Storage Junction Temperature	$T_J, T_{STG}$			-65 TO +150				$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
$I_R$	$V_R$ =Rated $V_{RRM}$		10	mA
$I_R$	$V_R$ =Rated $V_{RRM}$ , $T_A=100^\circ\text{C}$		100	mA
$V_F$	$I_F$ =Rated $I_0$ , (20V thru 40V)		0.57	V
$V_F$	$I_F$ =Rated $I_0$ , (50V thru 80V)		0.7	V