

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

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Manufacturers of World Class Discrete Semiconductors

## CRSH3 SERIES

SCHOTTKY BARRIER RECTIFIER  
3.0 AMPS, 20 THRU 60 VOLTS

JEDEC DO-201AD CASE

### DESCRIPTION

The CENTRAL SEMICONDUCTOR CRSH3 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using a metal to silicon junction to yield low forward voltage drops and instantaneous reverse recovery times.

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

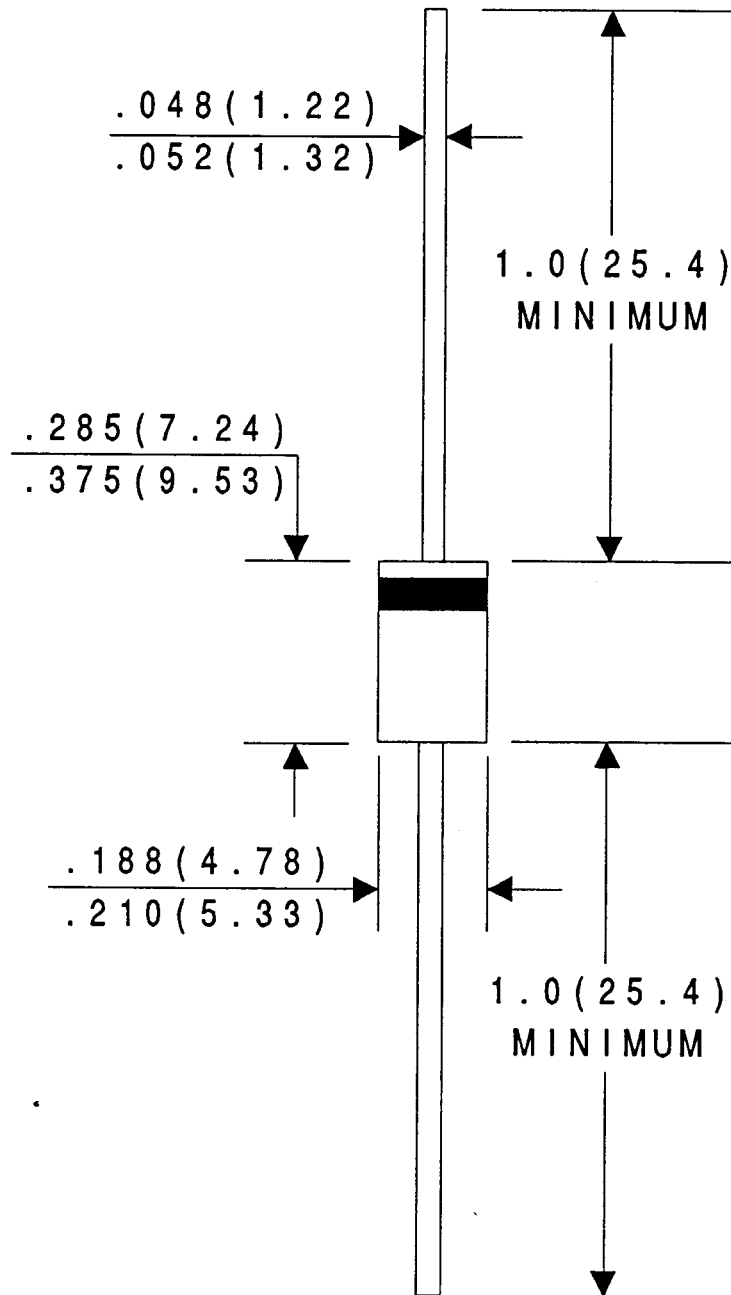
	<u>SYMBOL</u>	<u>CRSH3</u> <u>-2</u>	<u>CRSH3</u> <u>-3</u>	<u>CRSH3</u> <u>-4</u>	<u>CRSH3</u> <u>-5</u>	<u>CRSH3</u> <u>-6</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	50	60	V
DC Blocking Voltage	$V_R$	20	30	40	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Forward Current	$I_O$			3.0			A
Peak Forward Surge Current(8.3ms)	$I_{FSM}$			100			A
Storage Temperature	$T_{STG}$			-65 to +150			$^\circ\text{C}$
Junction Temperature	$T_J$	-65	to	+125	-65 to	+150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$	20	20	20	10	10	$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R = \text{Rated } V_{RRM}$			3.0	mA
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$			20	mA
$V_F$	$I_F = 3.0\text{A (20V THRU 40V)}$			0.5	V
$V_F$	$I_F = 3.0\text{A (50V AND 60V)}$			0.75	V
$C_J$	$V_F = 4.0\text{V}, f = 1.0\text{MHz}$		250		pF

(See Reverse Side)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).