

# 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<sub>A</sub> = 25°C unless otherwise noted)

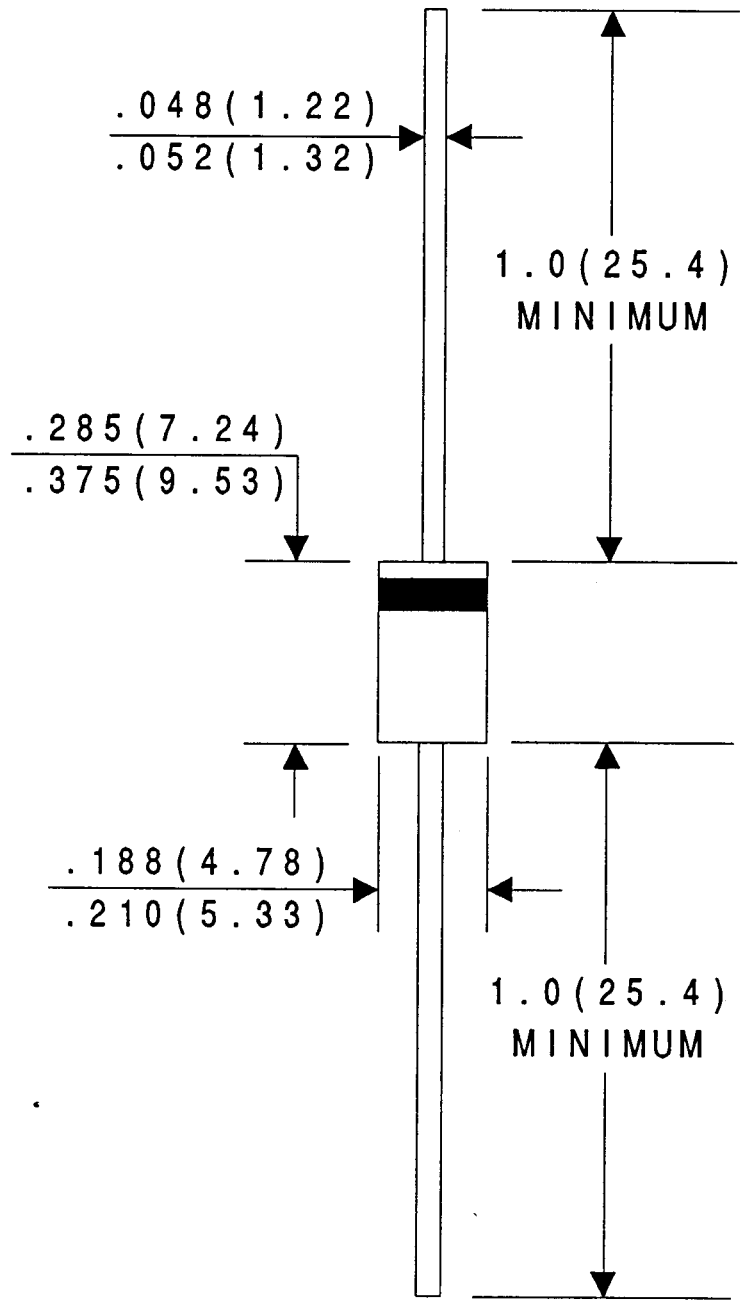
	SYMBOL	CRSH3 -2	CRSH3 -3	CRSH3 -4	CRSH3 -5	CRSH3 -6	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
DC Blocking Voltage	V <sub>R</sub>	20	30	40	50	60	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	V
Average Forward Current	I <sub>O</sub>			3.0			A
Peak Forward Surge Current(8.3ms)	I <sub>FSM</sub>			100			A
Storage Temperature	T <sub>STG</sub>			-65 to +150			°C
Junction Temperature	T <sub>J</sub>	-65	to	+125	-65 to +150		°C
Thermal Resistance	θ <sub>JA</sub>	20	20	20	10	10	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub>			3.0	mA
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub> , T <sub>A</sub> = 100°C			20	mA
V <sub>F</sub>	I <sub>F</sub> = 3.0A (20V THRU 40V)			0.5	V
V <sub>F</sub>	I <sub>F</sub> = 3.0A (50V AND 60V)			0.75	V
C <sub>J</sub>	V <sub>F</sub> = 4.0V, f = 1.0MHz		250		pF

(See Reverse Side)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).