

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

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Manufacturers of World Class Discrete Semiconductors

1N5820  
1N5821  
1N5822

SCHOTTKY BARRIER RECTIFIER

JEDEC DO-201AD CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N5820 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

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

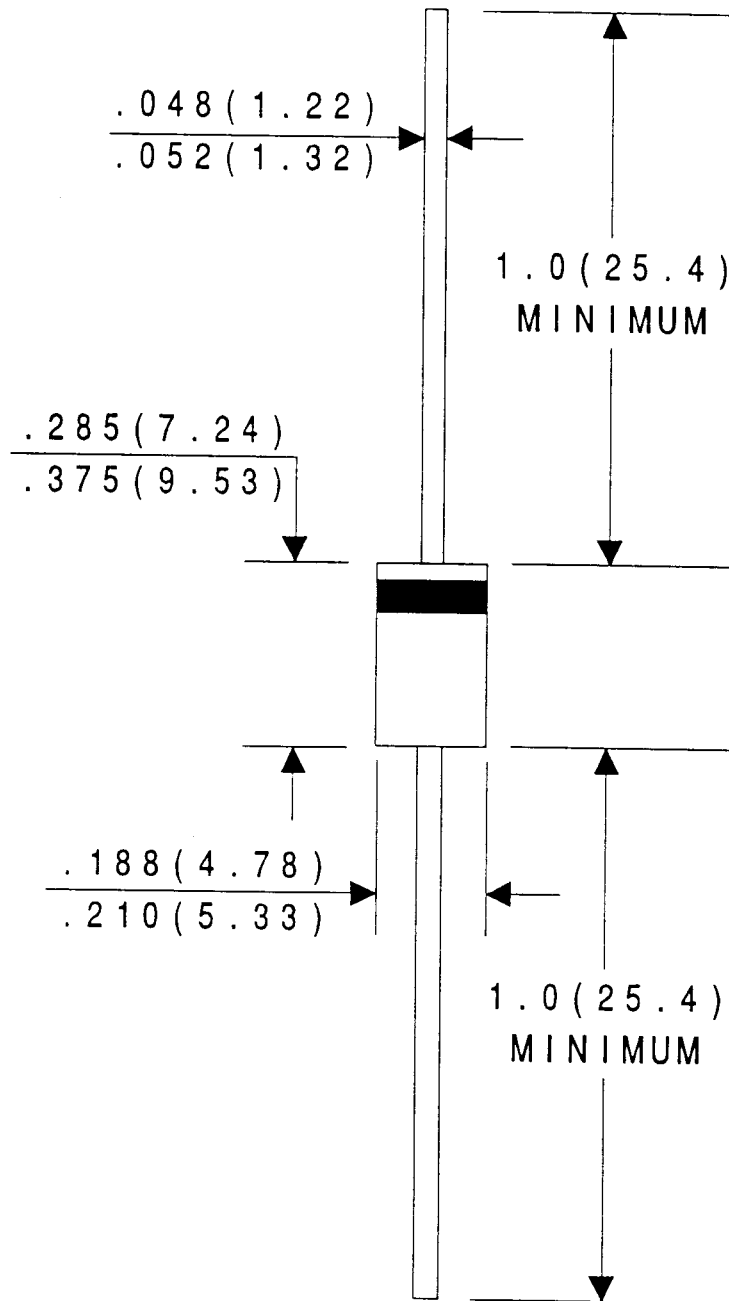
	SYMBOL	1N5820	1N5821	1N5822	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
DC Blocking Voltage	V <sub>R</sub>	20	30	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	V
Average Forward Current	I <sub>O</sub>		3.0		A
Peak Forward Surge Current	I <sub>FSM</sub>		80		A
Operating and Storage					
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 to +150		°C
Thermal Resistance	Θ <sub>JA</sub>		28		°C/W

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

SYMBOL	TEST CONDITIONS	1N5820		1N5821		1N5822		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		2.0	2.0	2.0	2.0		mA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100°C		20	20	20	20		mA
V <sub>F</sub>	I <sub>F</sub> =3.0A		0.475	0.500	0.525	0.525		V
V <sub>F</sub>	I <sub>F</sub> =9.4A		0.850	0.900	0.950	0.950		V

(SEE REVERSE FOR OUTLINE DRAWING)

JEDEC D0-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).