

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

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Manufacturers of World Class Discrete Semiconductors

1N1183A THRU 1N1190A  
1N1183RA THRU 1N1190RA

SILICON POWER RECTIFIER  
40 AMPS 50-600 VOLTS

JEDEC D0-5 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N1183A series types are medium current silicon power rectifiers designed for general purpose rectifier applications. Normal polarity is cathode to case, for reverse polarity add "R" to part number (EX: 1N1183RA).

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

	SYMBOL	1N 1183A	1N 1184A	1N 1185A	1N 1186A	1N 1187A	1N 1188A	1N 1189A	1N 1190A	UNIT
Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	500	600	V
DC Blocking Voltage	V <sub>R</sub>	50	100	150	200	300	400	500	600	V
RMS Reverse Voltage	V <sub>R</sub> (RMS)	35	70	105	140	210	280	350	420	V
Average Forward Current (T <sub>C</sub> =150°C)	I <sub>O</sub>				40					A
Peak Surge Current	I <sub>FSM</sub>				800					A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>STG</sub>				-65 TO +200					°C
Thermal Resistance	θ <sub>JC</sub>				1.0					°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V <sub>F</sub>	I <sub>F</sub> =40A		1.1	V
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		100	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>C</sub> =150°C		5.0	mA