

CentralTM 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_C=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 _{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V |
| DC Blocking Voltage | V _R | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | V |
| RMS Reverse Voltage | V _R (RMS) | 35 | 70 | 105 | 140 | 210 | 280 | 350 | 420 | v |
| Average Forward Current (T _C =150°C) | I _O | | | | 40 | | | | | A |
| Peak Surge Current | I _{FSM} | | | | 800 | | | | | A |
| Operating and Storage Junction Temperature | T _J , T _{STG} | | | | -65 TO +200 | | | | | °C |
| Thermal Resistance | θ _{JC} | | | | 1.0 | | | | | °C/W |

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNIT |
|----------------|--|-----|-----|------|
| V _F | I _F =40A | | 1.1 | V |
| I _R | V _R =Rated V _{RRM} | | 100 | μA |
| I _R | V _R =Rated V _{RRM} , T _C =150°C | | 5.0 | mA |