

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

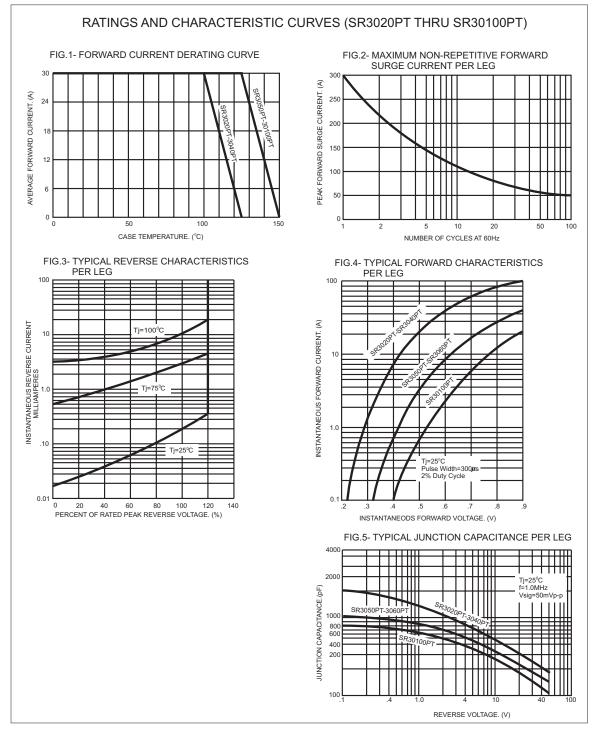
| Type Number | Symbol | SR30 20PT | SR30 30PT | SR30 40PT | SR30 50PT | SR30 60PT | SR30 100PT | Units |
|--|-------------------|-------------------------|--------------|--------------|--------------|--------------|---------------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 100 | V |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 70 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 100 | V |
| Maximum Average Forward Rectified Current at Tc=100℃ | I _(AV) | 30 | | | | | | А |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 300 | | | | | A | |
| Maximum Instantaneous Forward Voltage @ 15.0A (Note 3) | V _F | 0.55 | | | 0. | 70 | 0.90 | V |
| Maximum D.C. Reverse Current @ Tc=25℃ at Rated DC Blocking Voltage @ Tc=100℃ | I _R | 1.0 2.0 75 | | | | | mA mA | |
| Typical Thermal Resistance Per Leg (Note 1) | $R\theta_{JC}$ | 1.5 | | | | | | °C/₩ |
| Typical Junction Capacitance (Note 2) | Cj | 750 | | 500 | | 340 | pF | |
| Operating Junction Temperature Range | TJ | -65 to +125 -65 to +150 | | | | Ĉ | | |
| Storage Temperature Range | T _{STG} | -65 to +150 | | | | | | C |

Notes: 1. Thermal Resistance from Junction to Case Per Leg, with Heatsink size (4" x 6" x 0.25") Al-Plate.

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

3. 300 us Pulse Width, 2% Duty Cycle





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