

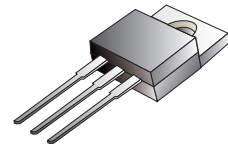
Dual Schottky Barrier Rectifiers

SR20150-G Thru. SR20200-G

Forward current: 20A

Reverse voltage: 150 to 200V

RoHS Device

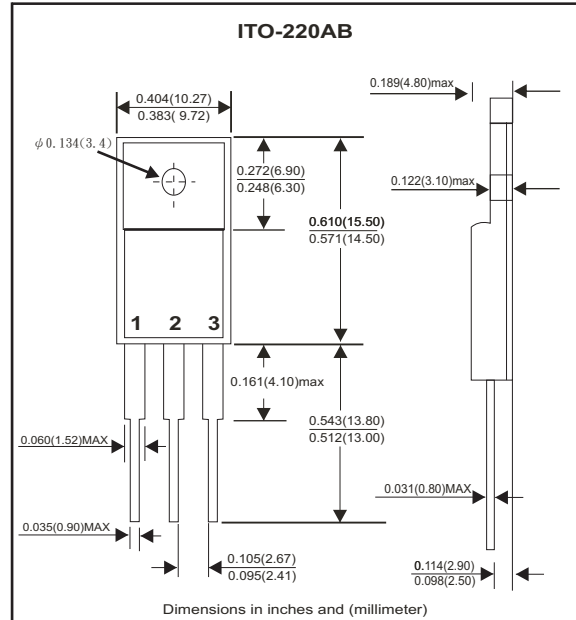


Features

- Extremely Low VF
- Low Stored Charge, Majority Carrier Conduction
- Low Power Loss / High Efficiency
- UL 94V0 Flame Retardant Epoxy Molding Compound
- Lead Free

Mechanical data

- Case: Transfer Molded
- Leads: Solderable per MIL-STD-202, method 208
- Polarity: As Marked
- Weight: 2.05 grams



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load derate current by 20%.

| Ratings | Symbol | SR20150-G | SR20200-G | Unit |
|--|-------------------|--------------|-----------|------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 150 | 200 | V |
| Maximum RMS Voltage | V_{RWS} | 105 | 140 | V |
| Maximum DC Blocking Voltage | V_{DC} | 150 | 200 | V |
| Maximum Average Forward Rectified Current See Fig.1 Per Leg | I_o | 20.0 10.0 | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load Per Leg | I_{FSM} | 175 | | A |
| Operating Temperature Range And Storage Temperature Range | T_{op}, T_{STG} | -55 to +150 | | °C |

Electrical Characteristics (At $T_a=25^\circ\text{C}$, unless otherwise noted)

| Characteristics | Symbol | SR20150-G | SR20200-G | Unit |
|--|--------|-----------|-----------|---------------|
| Maximum Forward Voltage At 10A Per Leg | V_F | 0.95 | | V |
| Maximum Reverse Current At 25°C Per Leg (Note 1) | I_R | 500 | | μA |
| Maximum Reverse Current At 125°C Per Leg (Note 1) | I_R | 10 | | mA |

Thermal Characteristics (At $T_a=25^\circ\text{C}$, unless otherwise noted)

| Parameter | Symbol | SR20150-G | SR20200-G | Units |
|--|-----------------|-----------|-----------|-------|
| Typical Thermal Resistance Junction to Case Per Leg | $R_{\theta JC}$ | 3.5 | | °C/W |

NOTES : 1.Pulse Test : 300 μs Pulse Width ,1% Duty Cycle

RATING AND CHARACTERISTIC CURVES (SR20150-G Thru. SR20200-G)

Fig.1 Forward Current Derating Curve

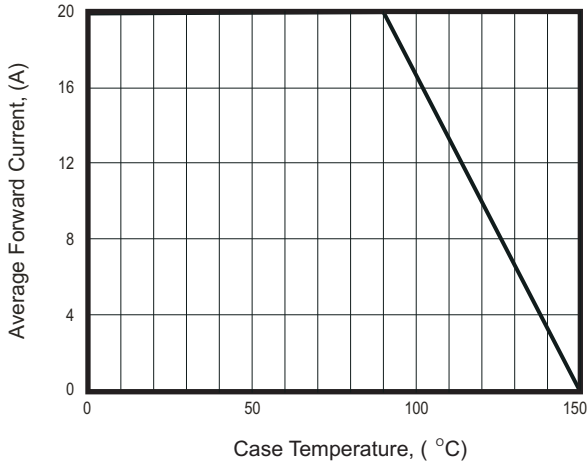


Fig.2 Maximum Non-Repetitive Surge Current

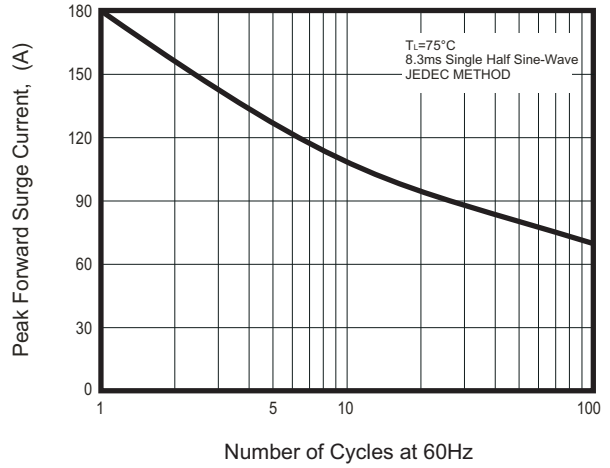


Fig.3 Typical Reverse Characteristics

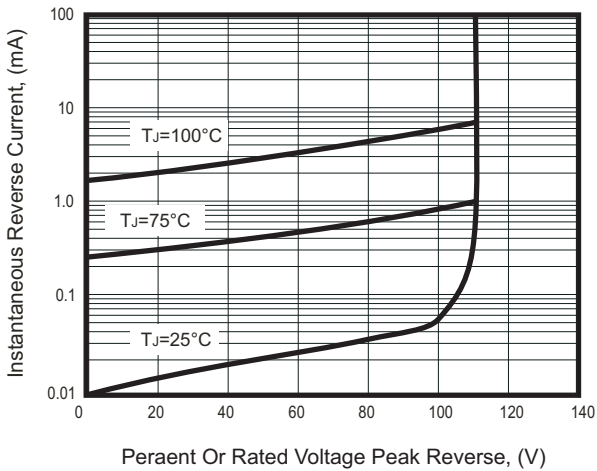


Fig.4 Typical Instantaneous Forward Characteristics Per Leg

