

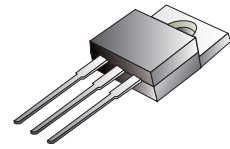
# Dual Schottky Barrier Rectifiers

## SR20150-G Thru. SR20200-G

Forward current: 20A

Reverse voltage: 150 to 200V

RoHS Device

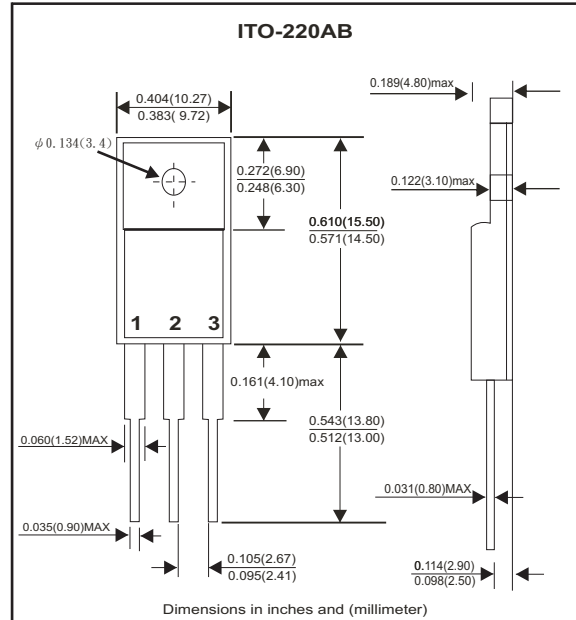


### Features

- 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<br>See Fig.1<br>Per Leg                                | $I_o$             | 20.0<br>10.0 |           | A    |
| Peak Forward Surge Current, 8.3ms Single<br>Half Sine-Wave Superimposed On Rated Load<br>Per Leg | $I_{FSM}$         | 175          |           | A    |
| Operating Temperature Range And Storage<br>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<br>(Note 1)  | $I_R$  | 500       |           | $\mu\text{A}$ |
| Maximum Reverse Current At 125°C Per Leg<br>(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<br>Per Leg | $R_{\theta JC}$ | 3.5       |           | °C/W  |

NOTES : 1.Pulse Test : 300 $\mu\text{s}$  Pulse Width ,1% Duty Cycle

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

Fig.1 Forward Current Derating Curve

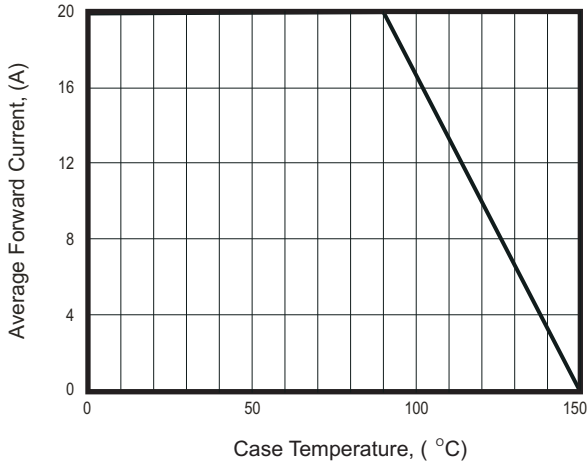


Fig.2 Maximum Non-Repetitive Surge Current

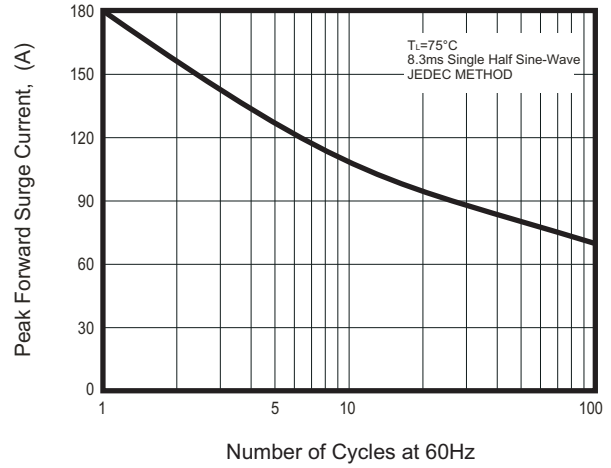


Fig.3 Typical Reverse Characteristics

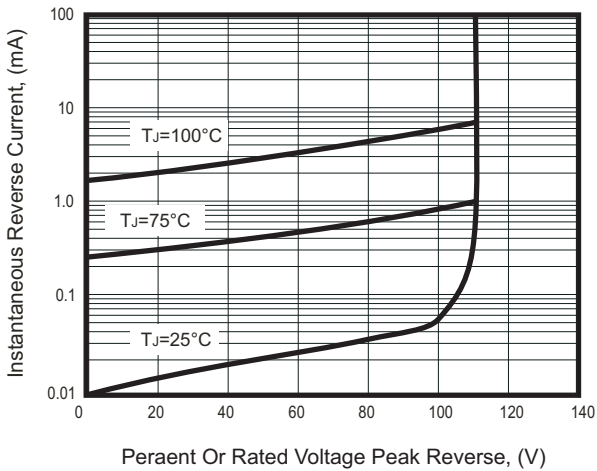


Fig.4 Typical Instantaneous Forward Characteristics Per Leg

