

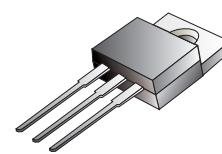
# Dual Schottky Barrier Rectifiers

## SR20150-G Thru. SR20200-G

Forward current: 20A

Reverse voltage: 150 to 200V

RoHS Device

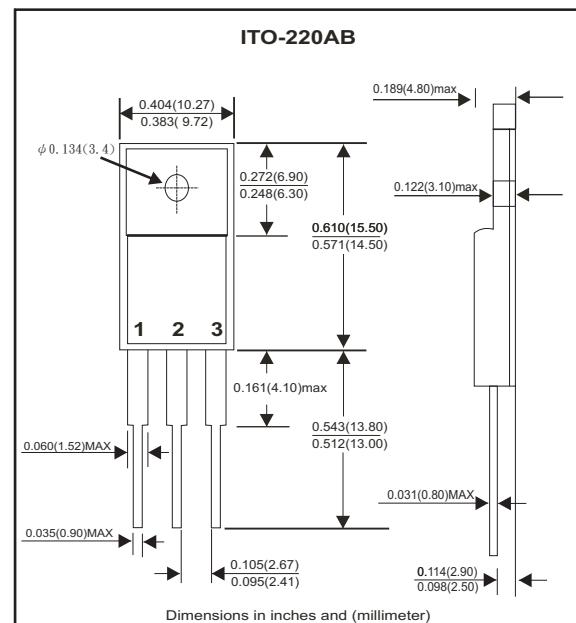


### Features

- 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 <sub>RRM</sub>	150	200	V
Maximum RMS Voltage	V <sub>RWS</sub>	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	150	200	V
Maximum Average Forward Rectified Current See Fig.1 Per Leg	I <sub>o</sub>	20.0	10.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load Per Leg	I <sub>FSM</sub>		175	A
Operating Temperature Range And Storage Temperature Range	Top, T <sub>STG</sub>		-55 to +150	°C

### Electrical Characteristics (At T<sub>A</sub>=25°C Unless Otherwise Noted)

Characteristics	Symbol	SR20150-G	SR20200-G	Unit
Maximum Forward Voltage At 10A Per Leg	V <sub>F</sub>		0.95	V
Maximum Reverse Current At 25°C Per Leg (Note 1)	I <sub>R</sub>		500	μA
Maximum Reverse Current At 125°C Per Leg (Note 1)	I <sub>R</sub>		10	mA

### Thermal Characteristics (At T<sub>A</sub>=25°C Unless Otherwise Noted)

Parameter	Symbol	SR20150-G	SR20200-G	Units
Typical Thermal Resistance Junction to Case Per Leg	R <sub>θJC</sub>		3.5	°C/W

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

REV:A

# Dual Schottky Barrier Rectifiers

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

Fig.1 Forward Current Derating Curve

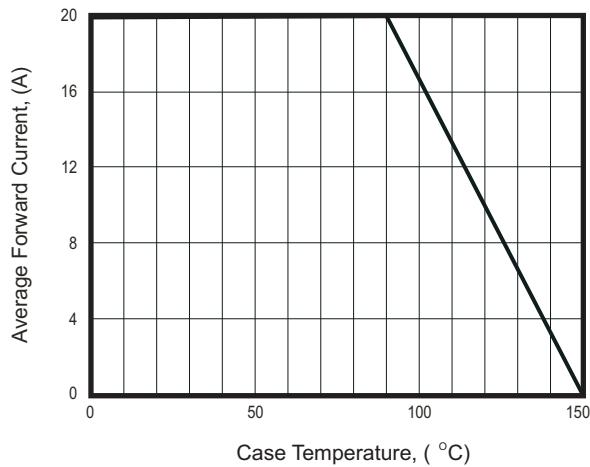


Fig.2 Maximum Non-Repetitive Surge Current

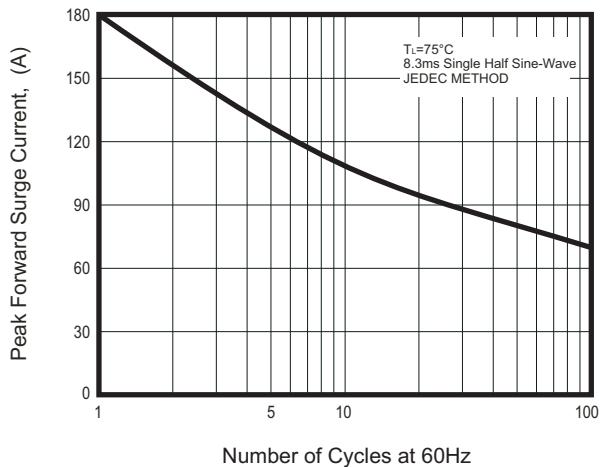


Fig.3 Typical Reverse Characteristics

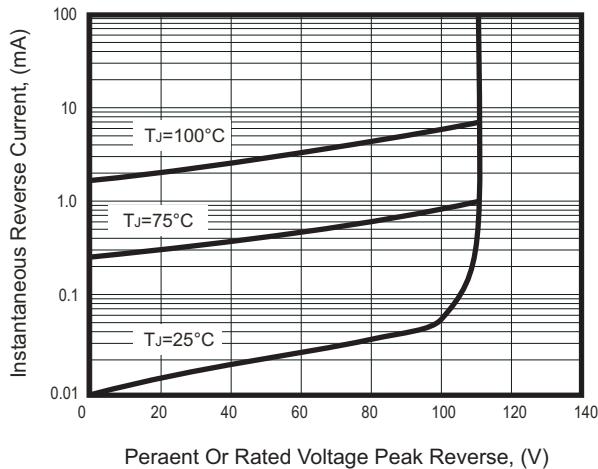


Fig.4 Typical Instantaneous Forward Characteristics Per Leg

