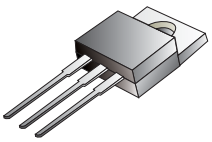
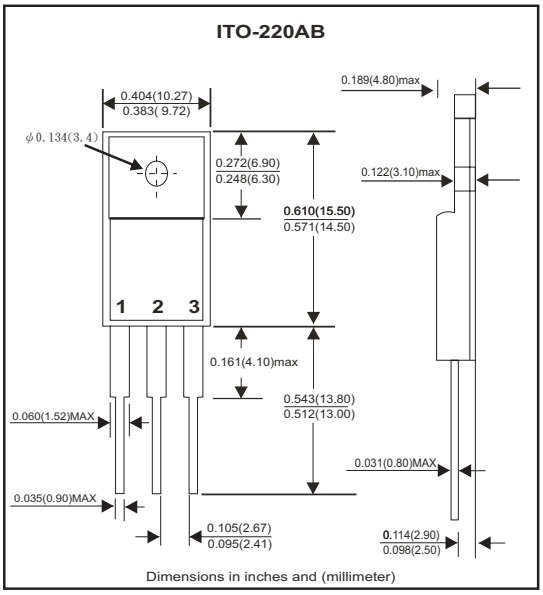
Dual Schottky Barrier Rectifiers

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	I_O	20.0 Per Leg 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	Top,T_{STG}	-55 to +150		°C

Electrical Characteristics (At Ta=25°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 Ta=25°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 : 300μS Pulse Width ,1% Duty Cycle

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

Fig.1 Forward Current Derating Curve

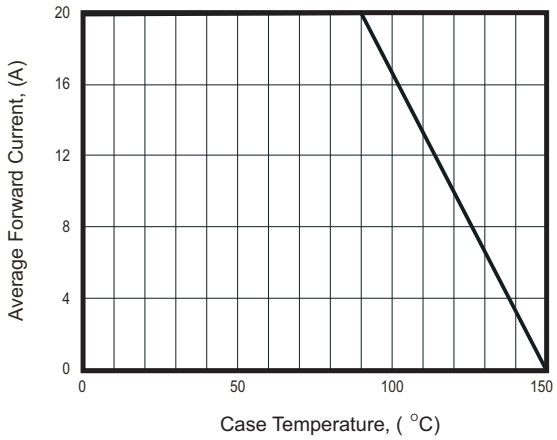


Fig.2 Maximum Non-Repetitive Surge Current

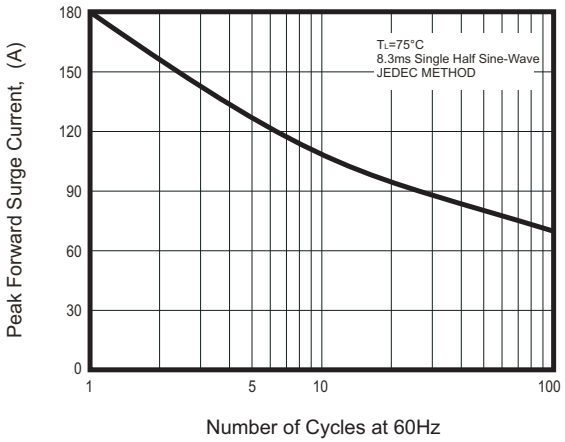


Fig.3 Typical Reverse Characteristics

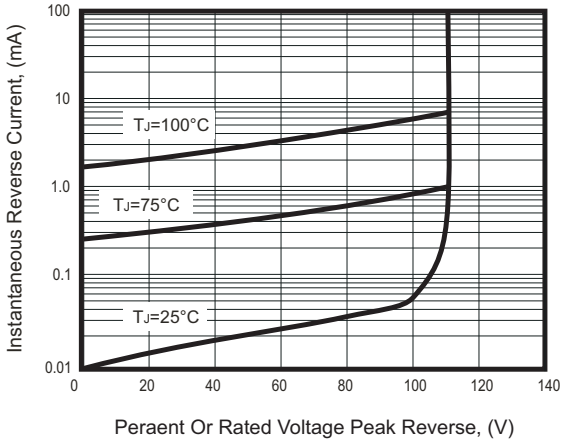


Fig.4 Typical Instantaneous Forward Characteristics Per Leg