



**Low VF Dual Schottky Barrier Rectifier**  
**Reverse Voltage 150 Volts Forward Current 30 Amperes**

**Features**

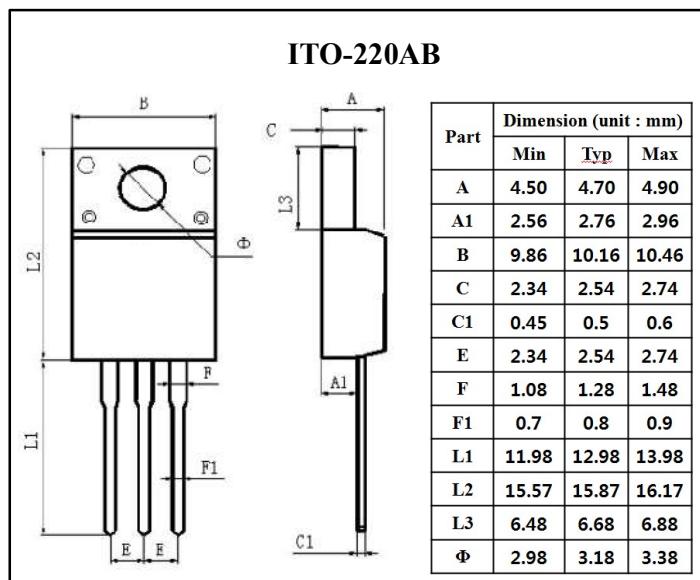
- High current capability, low forward voltage.
- Excellent high temperature stability
- Low power loss, and high efficiency
- High forward surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- RoHS compliant

**Mecanical Data**

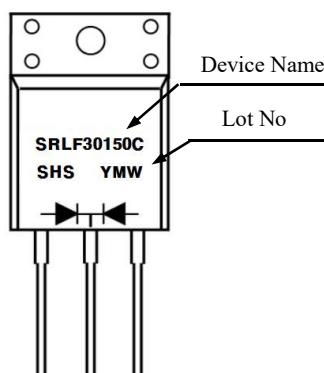
- Case :JEDEC ITO-220AB molded plastic package
- Termals: Matte tin plated,solderable per MIL-STD-750, Method 2026
- Molding Compound Flammability Rating:UL94-0
- Polarity:As marked
- Mounting position : Any
- Weight : 2.24 g approx.

**Application**

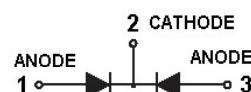
- Switching mode power supply applications
- Portable equipment battery applications
- High frequency rectification
- DC/DC converter



**Marking**



**Equivalent Circuit**



**Maximum Ratings**

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	150	V
Maximum RMS Voltage	V <sub>RMS</sub>	105	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	150	V
Maximum Average Forward Rectified Current at Total Device	I <sub>F(AV)</sub>	30	A
Maximum Average Forward Rectified Current at Per Leg		15	A
Peak Forward Surge Current,8.3ms single half sine-wave	I <sub>FSM</sub>	270	A
Operating Junction Temperature Range	T <sub>J</sub>	-65 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

**Electrical Characteristics (Ta=25°C unless otherwise noted)**

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	V <sub>R</sub>	150	-	-	V	I <sub>R</sub> =0.2mA
Forward Voltage Drop	V <sub>F</sub>	-	0.41	0.43	V	I <sub>F</sub> =0.1A at Ta=25 °C
		-	0.82	0.84	V	I <sub>F</sub> =15A at Ta=25 °C
Reverse Leakage Current	I <sub>R</sub>	-	5	200	uA	V <sub>R</sub> =150V, Ta=25 °C
		-	5	20	mA	V <sub>R</sub> =150V, Ta=125 °C



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

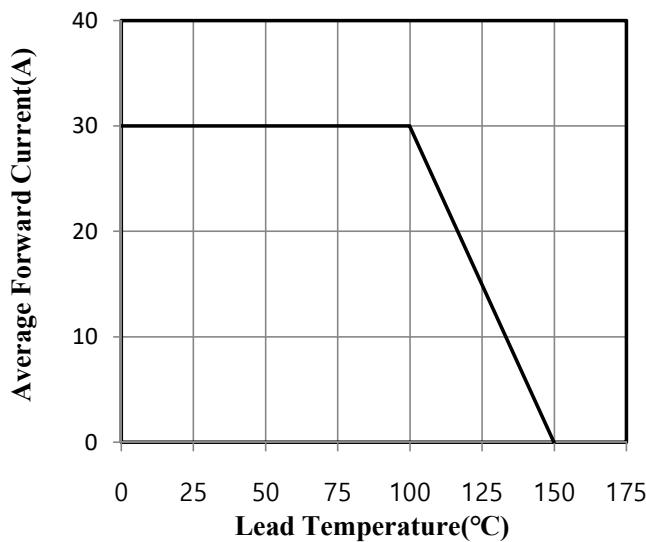


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

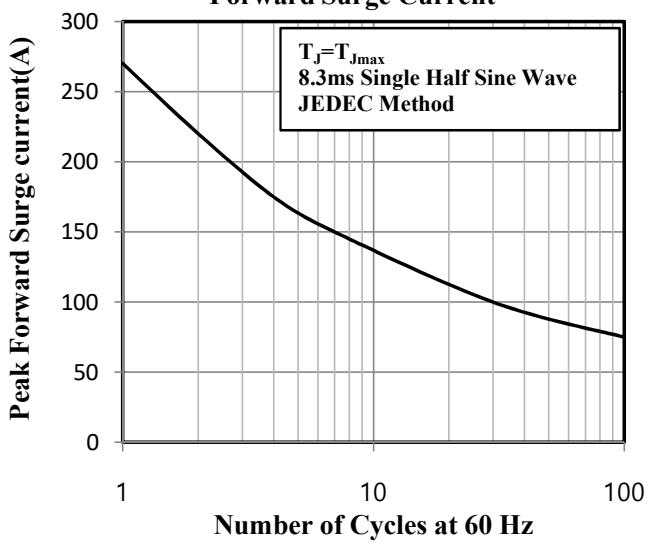


Fig.3 Typical Instantaneous Forward Characteristics

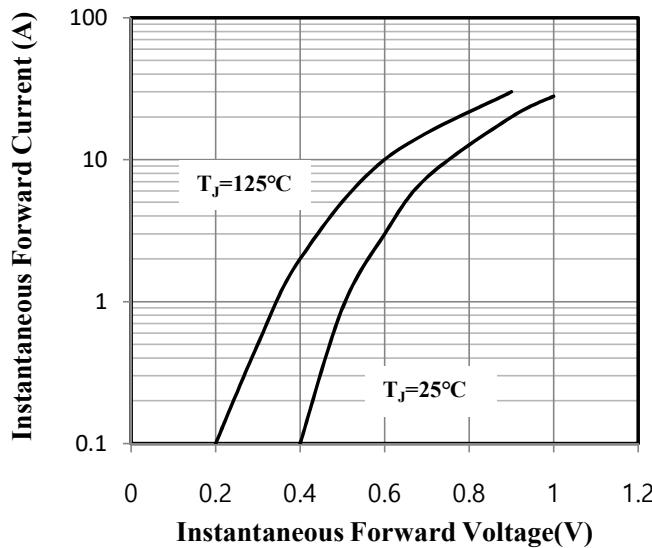


Fig.4 Typical Junction Capacitance

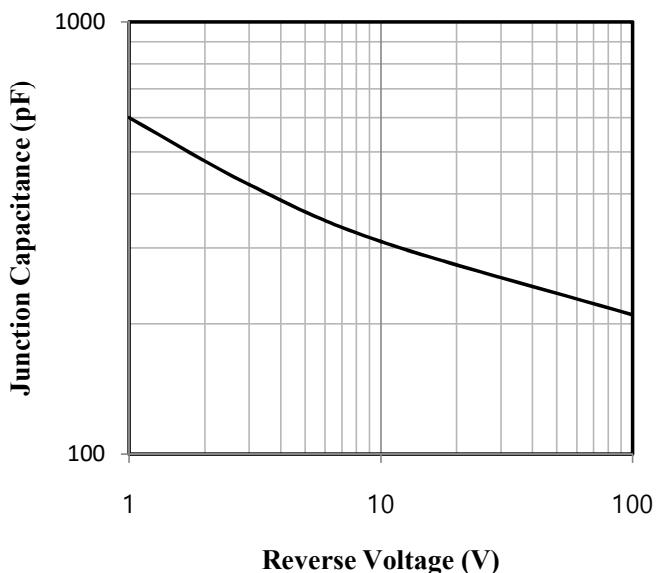


Fig.5 Typical Reverse Characteristics

