

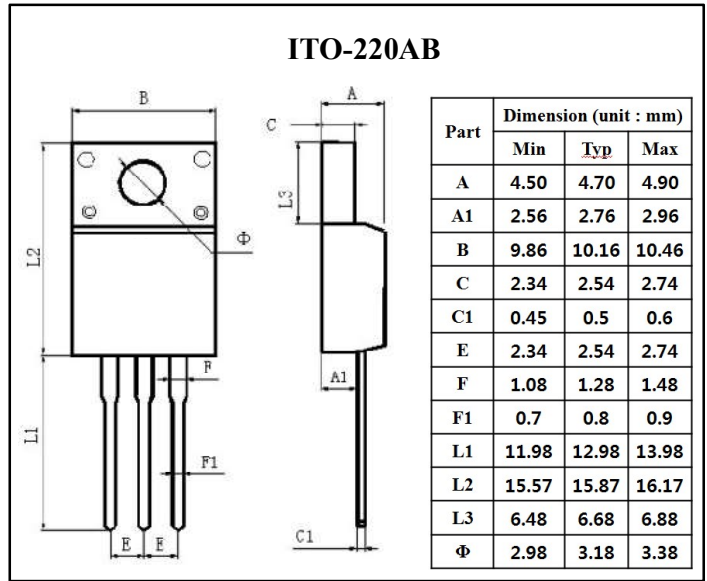
**Low VF Dual Schottky Barrier Rectifier**  
**Reverse Voltage 100 Volts Forward Current 30 Amperes**

**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**

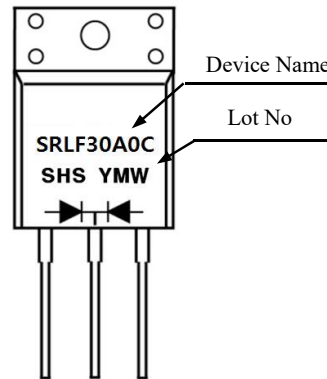
- Case :JEDEC ITO-220AB molded plastic package
- Termals: Matte tin plated,solderable per MIL-STD-750, Method 2026
- Molding Compound Flammability Rating:UL94-0
- Polarity:As marked
- Mounting position : Any
- Weight : 2.24 g approx.



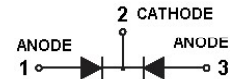
**Application**

- 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	$V_{RRM}$	100	V
Maximum RMS Voltage	$V_{RMS}$	70	V
Maximum DC Blocking Voltage	$V_{DC}$	100	V
Maximum Average Forward Rectified Current at Total Device	$I_{F(AV)}$	30	A
Maximum Average Forward Rectified Current at Per Leg		15	A
Peak Forward Surge Current,8.3ms single half sine-wave	$I_{FSM}$	320	A
Operating Junction Temperature Range	$T_J$	-65 to +150	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C

**Electrical Charateristics** ( $T_a=25^{\circ}C$  unless otherwise noted)

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_R$	100	-	-	V	$I_R=0.2mA$
Forward Voltage Drop	$V_F$	-	0.32	0.35	V	$I_F=0.1A$ at $T_c=25^{\circ}C$
		-	0.68	0.71	V	$I_F=15A$ at $T_c=25^{\circ}C$
Reverse Leakage Current	$I_R$	-	-	200	uA	$V_R=100V, T_a=25^{\circ}C$
		-	-	20	mA	$V_R=100V, T_a=125^{\circ}C$



Ratings and Characteristics Curves ( $T_a=25^\circ\text{C}$  unless otherwise noted)

Fig.1 Forward Current Derating Curve

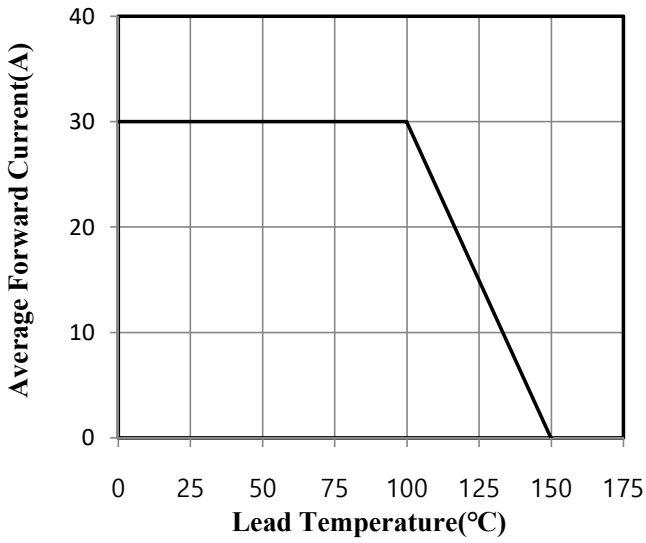


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

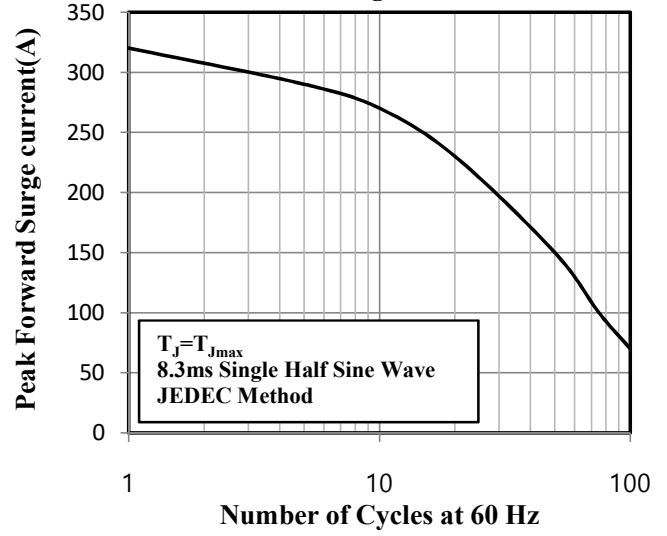


Fig.3 Typical Instantaneous Forward Characteristics

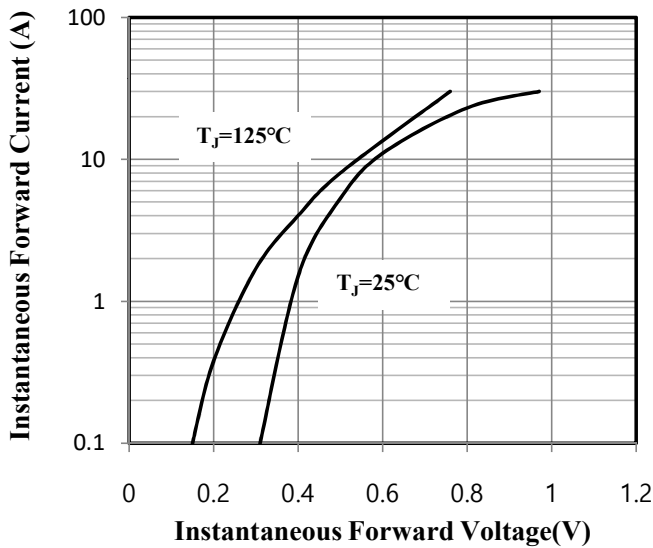


Fig.4 Typical Junction Capacitance

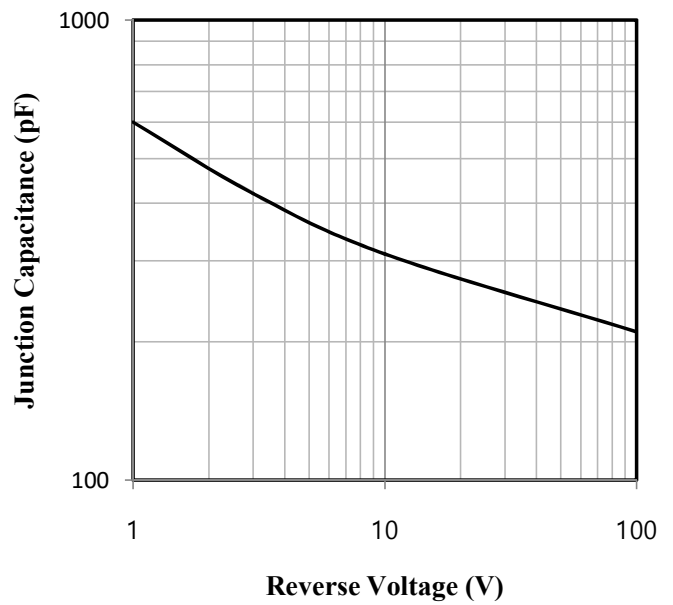


Fig.5 Typical Reverse Characteristics

