



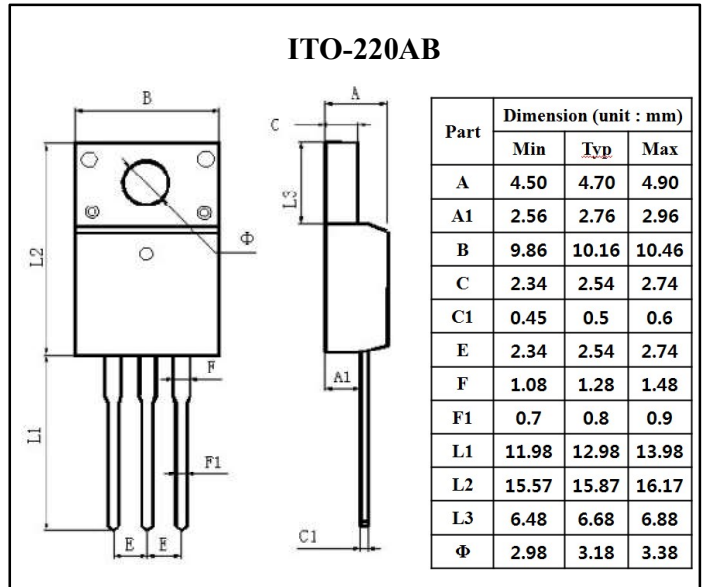
**Low VF Dual Schottky Barrier Rectifier**  
**Reverse Voltage 60 Volts Forward Current 40 Amperes**

**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**

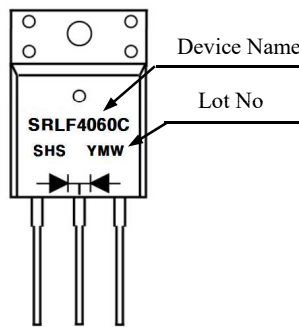
- Case :JEDEC ITO-220AB molded plastic package
- Terminals: Matte tin plated,solderable per MIL-STD-750, Method 2026
- Molding Compound Flammability Rating:UL94-0
- Polarity:As marked
- Mounting position : Any
- Weight : 2.24 g approx.



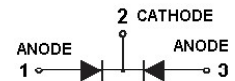
**Application**

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

**Marking**



**Equivalent Circuit**



**Maximum Ratings**

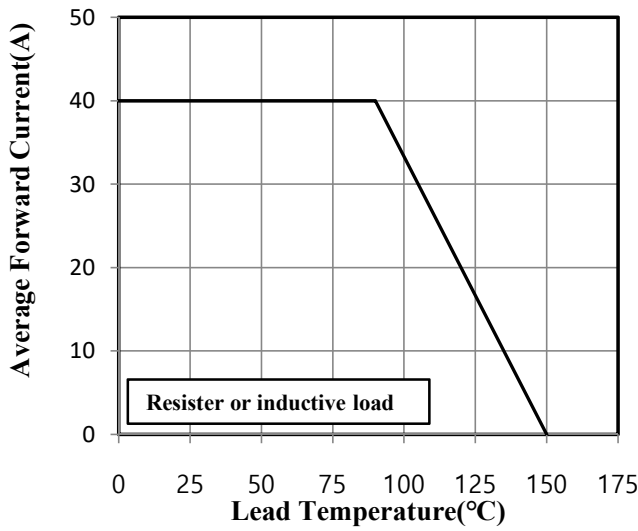
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS Voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	$V_{DC}$	60	V
Maximum Average Forward Rectified Current at Total Device	$I_{F(AV)}$	40	A
Maximum Average Forward Rectified Current at Per Leg		20	A
Peak Repetitive Forward Current (Rate $V_R$ , Square Wave, 20kHz)	$I_{FM}$	40	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	$I_{FSM}$	300	A
Maximum Thermal Resistance Junction to Case	$R_{th(j-c)}$	3.2	°C/W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150	°C

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

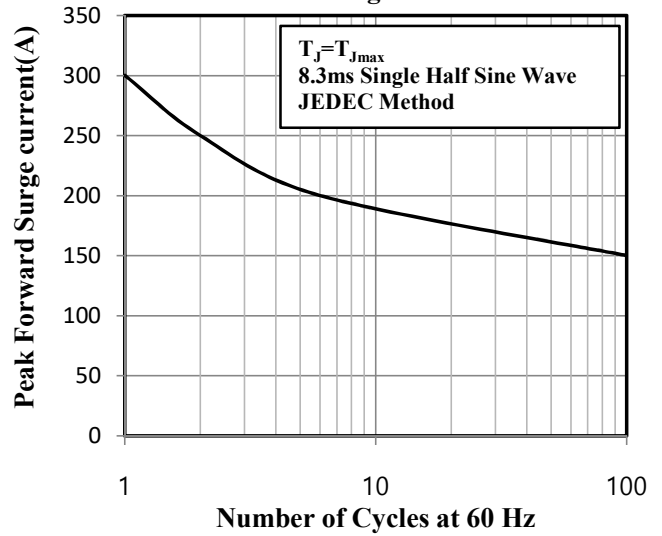
Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_R$	60	-	-	V	$I_R=0.5\text{mA}$
Forward Voltage Drop	$V_F$	-	0.24	0.28	V	$I_F=0.1\text{A}$ at $T_a=25^\circ\text{C}$
		-	0.44	0.48	V	$I_F=10\text{A}$ at $T_a=25^\circ\text{C}$
		-	0.55	0.6	V	$I_F=20\text{A}$ at $T_a=25^\circ\text{C}$
Reverse Leakage Current	$I_R$	-	-	0.5	mA	$V_R=100\text{V}, T_a=25^\circ\text{C}$
		-	-	50	mA	$V_R=100\text{V}, T_a=125^\circ\text{C}$

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

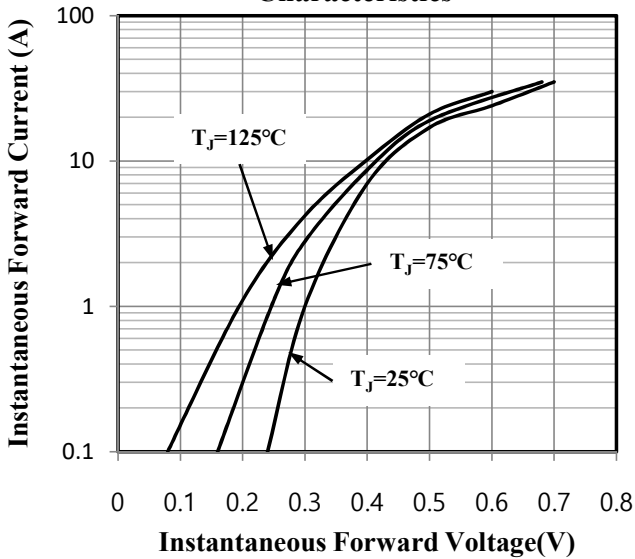
**Fig.1 Forward Current Derating Curve**



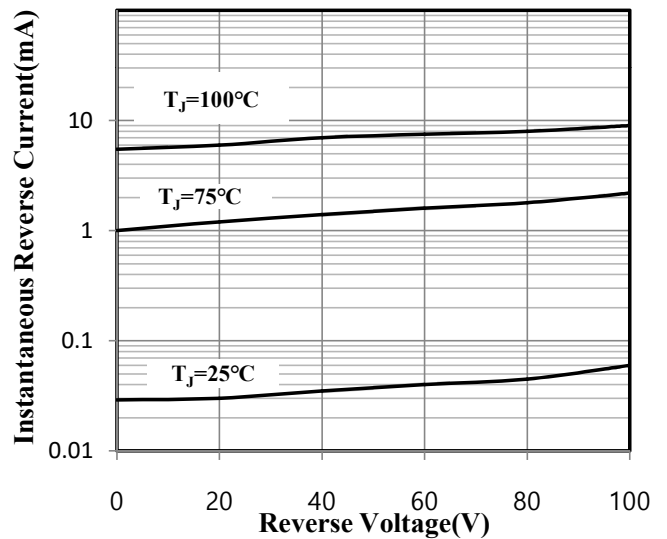
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Reverse Characteristics**



**Fig.5 Typical Junction Capacitance**

