



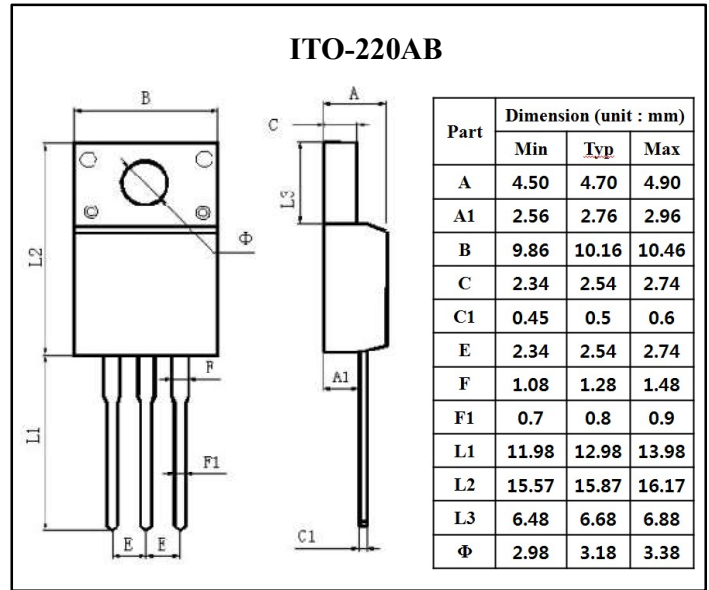
Low VF Dual Schottky Barrier Rectifier
Reverse Voltage 100 Volts Forward Current 10 Amperes

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

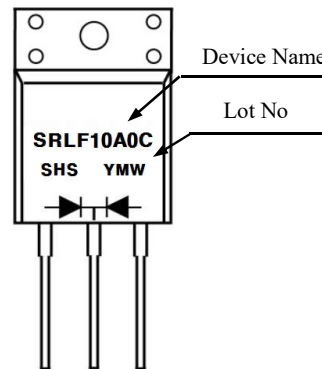
- Case :JEDEC ITO-220AB molded plastic package
- Termals: Matte tin plated,solderable per MIL-STD-750, Method 2026
- Molding Compound Flammability Rating:UL94-0
- Polarity:As marked
- Mounting position : Any
- Weight : 2.24 g approx.



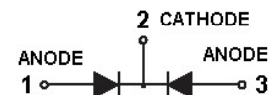
Application

- 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	$I_{F(AV)}$	10	A
Maximum Average Forward Rectified Current at Per Leg		5	A
Peak Forward Surge Current,8.3ms single half sine-wave	I_{FSM}	150	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	-	0.34	0.36	V	$I_F=0.1A$ at $T_a=25^{\circ}C$
		-	0.67	0.7	V	$I_F=5.0A$ at $T_a=25^{\circ}C$
Reverse Leakage Current	I_R	-	10	200	uA	$V_R=100V, T_a=25^{\circ}C$
		-	5.0	-	mA	$V_R=100V, T_a=125^{\circ}C$

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

Fig.1 Forward Current Derating Curve

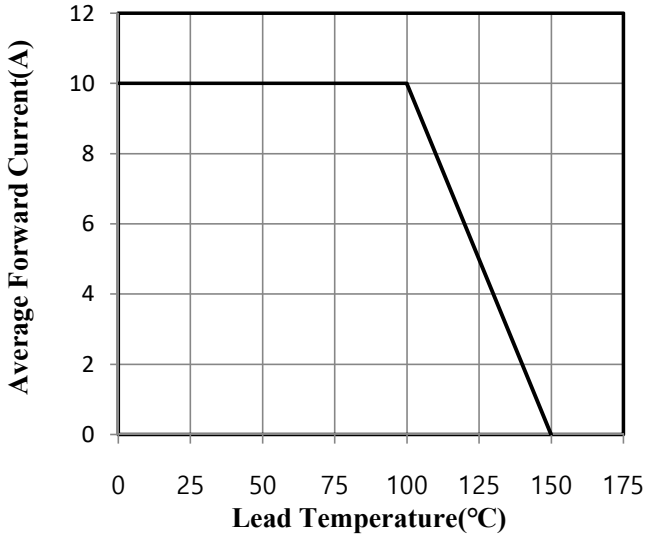


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

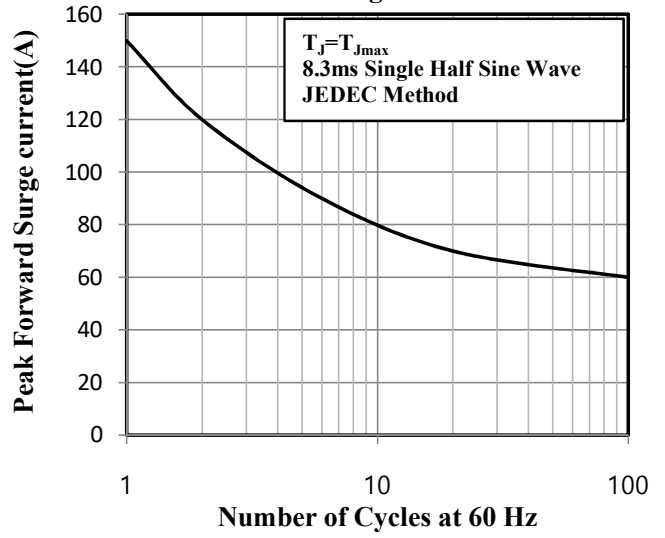


Fig.3 Typical Instantaneous Forward Characteristics

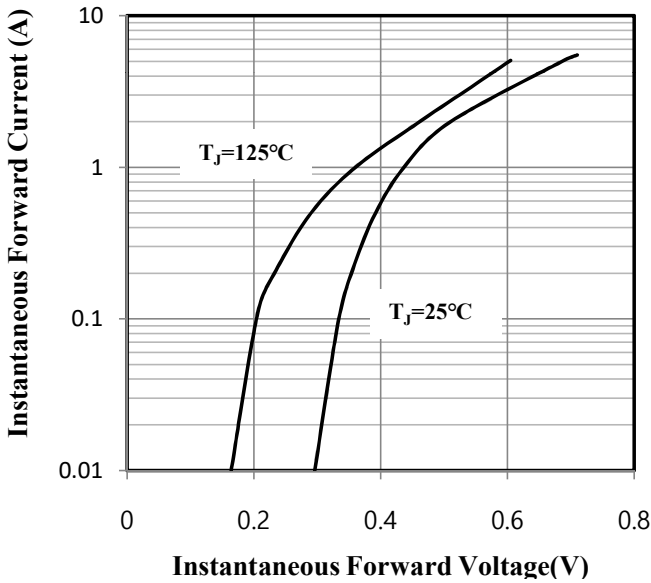


Fig.4 Typical Junction Capacitance

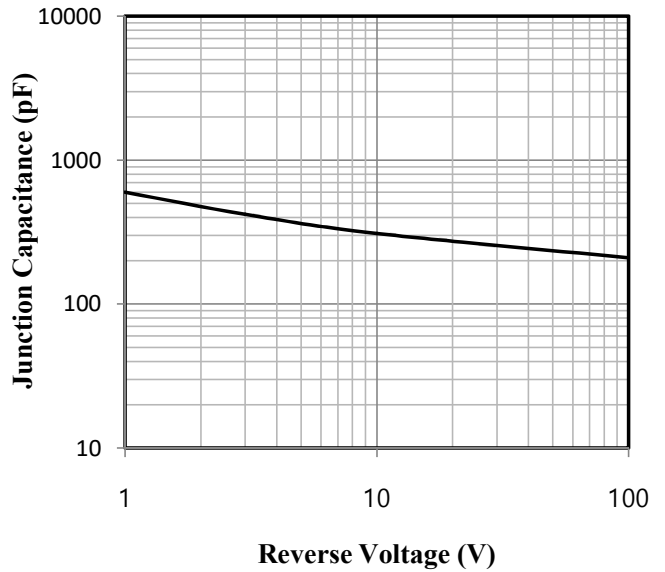


Fig.5 Typical Reverse Characteristics

