



Switchmode Full Plastic Dual Schottky Barrier Rectifier Reverse Voltage 45 Volts Forward Current 20 Amperes

Features

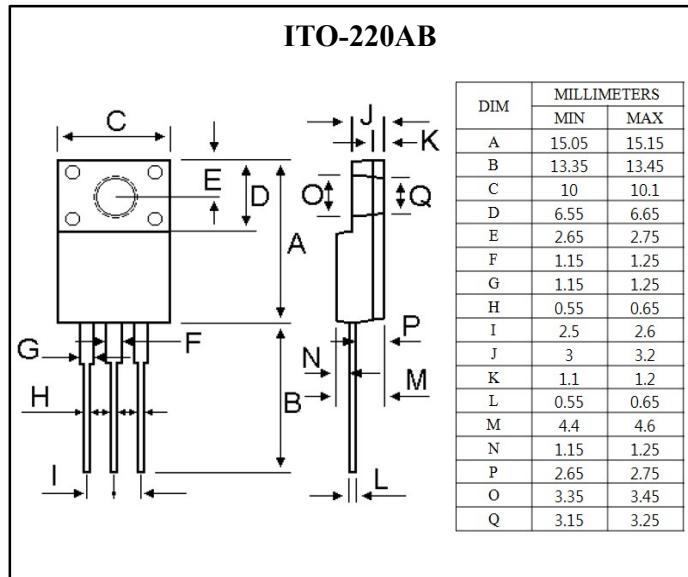
- High current capability, low forward voltage.
- Excellent high temperature stability
- Low power loss, and high efficiency
- High forward surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- RoHS compliant

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



Maximum Ratings

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	V
Maximum Average Forward Rectified Current at Total Device	I _{F(AV)}	20	A
Maximum Average Forward Rectified Current at Per Leg		10	A
Peak Forward Surge Current,8.3ms single half sine-wave	I _{FSM}	200	A
Typical Thermal Resistance Junction to Case per leg	R _{th(j-c)}	2.0	°C/W
Operating Junction Temperature Range	T _J	-50 to +150	°C
Storage Temperature Range	T _{STG}	-50 to +150	°C

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

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	V _R	45	-	-	V	I _R =0.5mA
Forward Voltage Drop	V _F	-	-	0.57	V	I _F =10A at Ta=25 °C
Reverse Leakage Current	I _R	-	-	0.2	mA	V _R =45V, Ta=25 °C
		-	-	30	mA	V _R =45V, Ta=125 °C



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

Fig.1 Forward Current Derating Curve

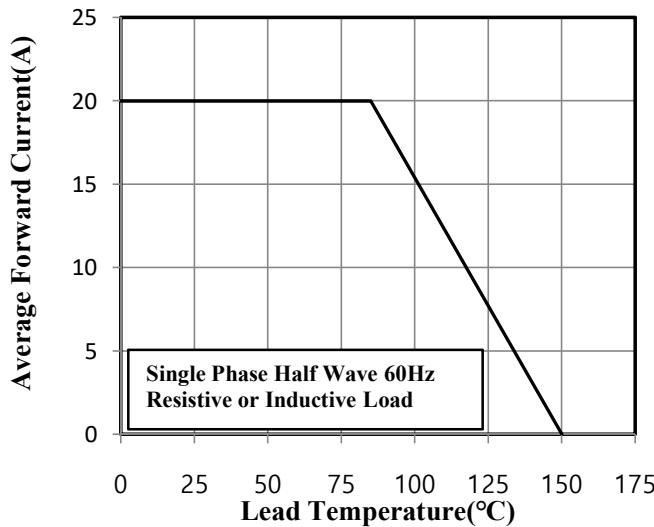


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

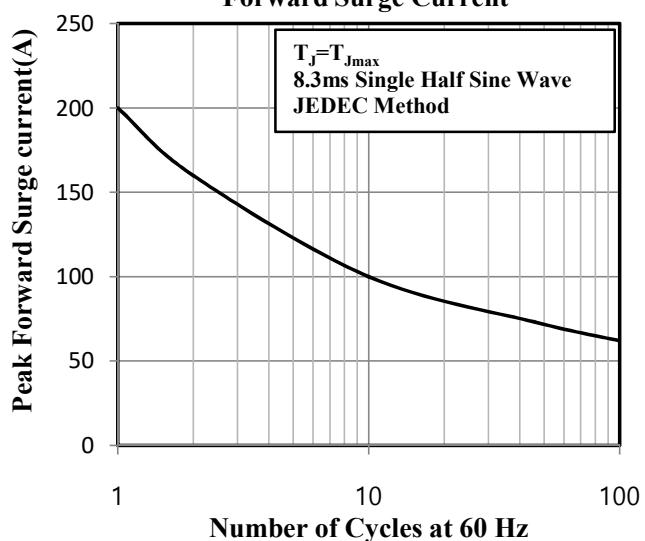


Fig.3 Typical Instantaneous Forward Characteristics

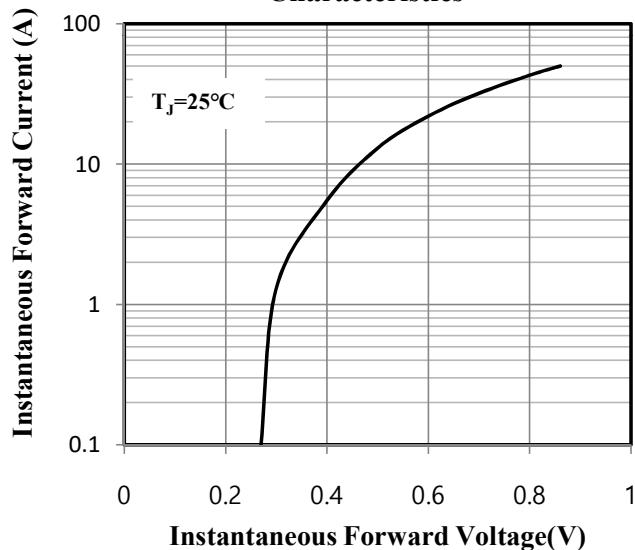


Fig.4 Typical Junction Capacitance

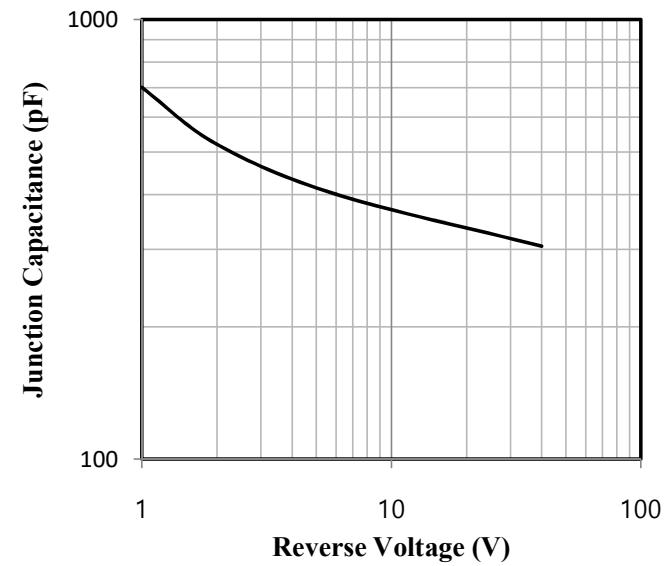


Fig.5 Typical Reverse Characteristics

