



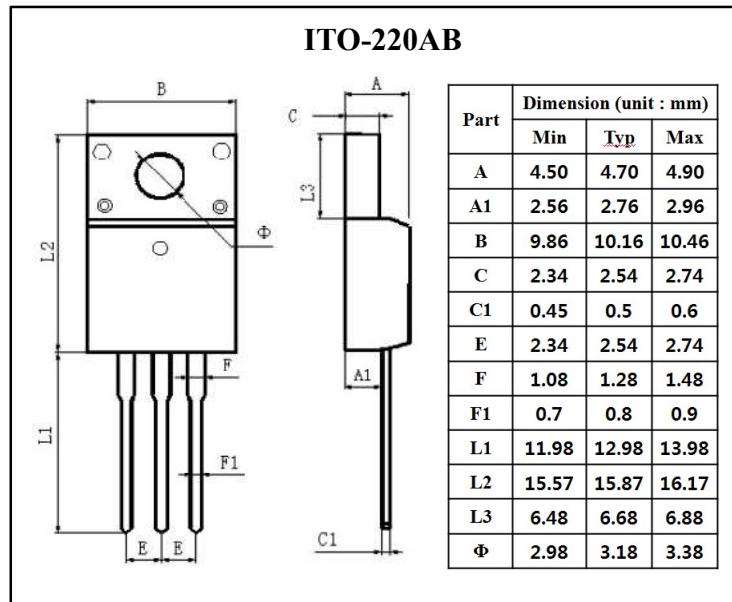
Schottky Barrier Rectifier Reverse Voltage 100 Volts Forward Current 30 Amperes

Features

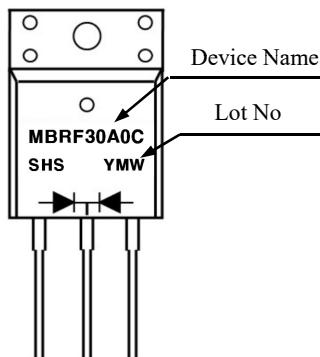
- Plastic material used carries Underwriters
- Laboratory Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Guardring for overvoltage protection
- High temperature soldering guaranteed : 260°C/10 seconds, 0.25"(6.35mm) from case

Mecanical Data

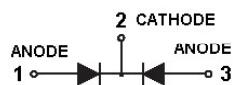
- Case : JEDEC ITO-220AB molded plastic body
- Termals : Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting position : Any
- Mounting Torque : 5 in. -lbs. max
- Weight : 0.08 ounce, 2.24 grams



Marking

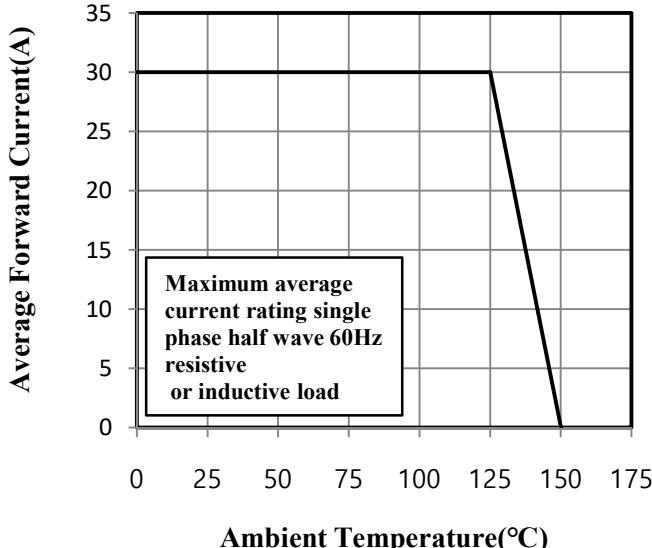
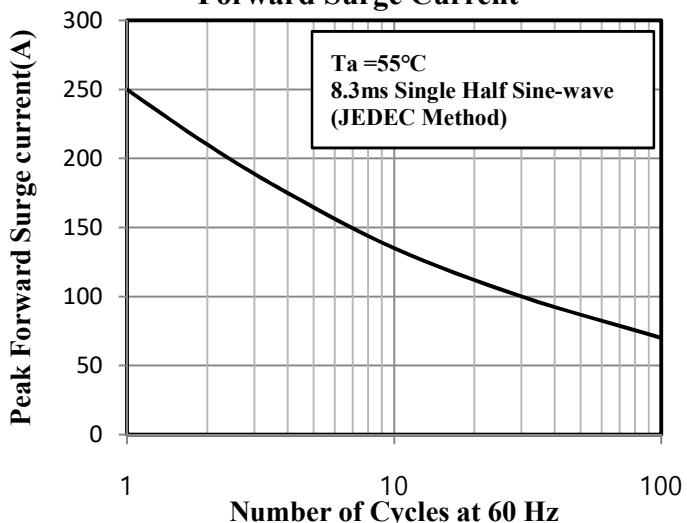
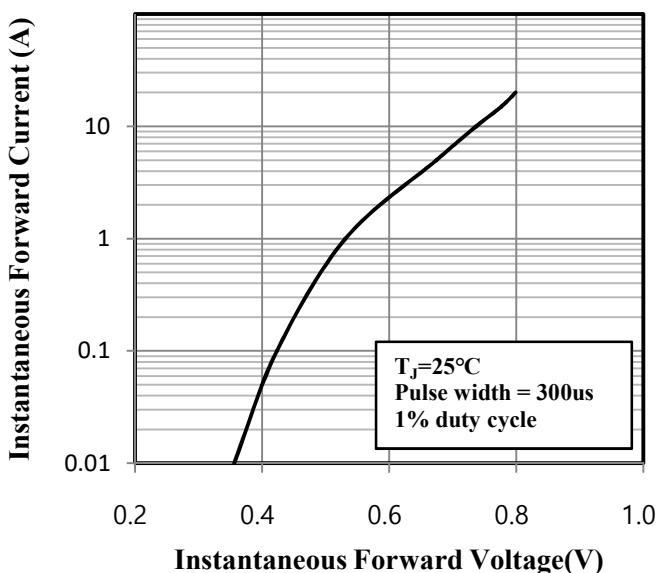
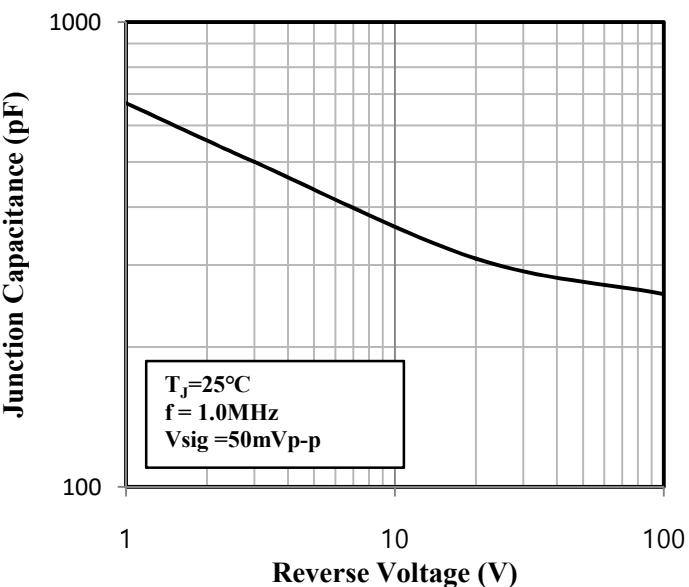


Equivalent Circuit



Maximum Ratings & Electrical Characteristics

Parameter	Symbol	Rated Value	Unit	Remark
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 Total Device (Rated V_R)	$I_F(AV)$	15	A	
Peak Repetitive Forward Current (Rate V_R , Square Wave, 20kHz)	I_{FM}	30	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	250	A	
Maximum Instantaneous Forward Voltage at 15A	V_F	0.85	V	Ta=25°C
	V_F	0.70	V	Ta=125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1	mA	Ta=25°C
		15	mA	Ta=125°C
Operation Junction Temperature Range	T_J	-65 to +150	°C	
Storage Temperature Range	T_{STG}	-65 to +175	°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
