



## Schottky Barrier Rectifiers

**Reverse Voltage - 30 to 100 Volts**  
**Forward Current - 10.0 Amperes**

### Features

- Low forward voltage drop
- High current capability
- High surge capability
- The plastic material carries UL recognition 94V-0

### Mechanical Data

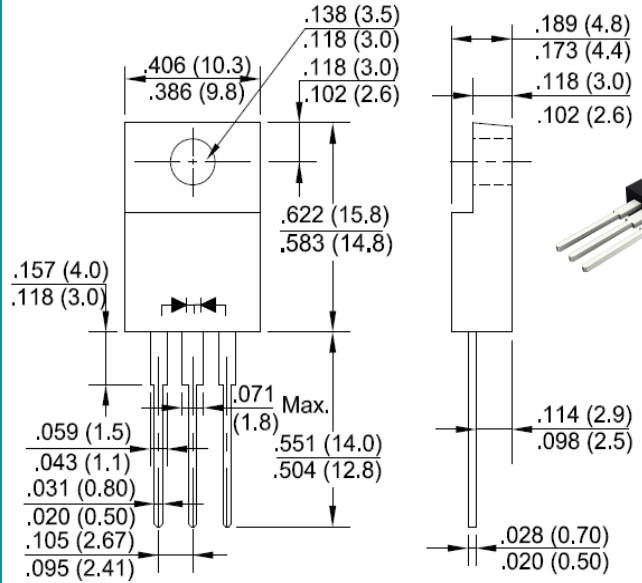
- Case: JEDEC ITO-220AB molded plastic
- Polarity: As marked on the body
- Mounting position: Any

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

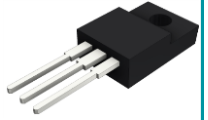
### Applications

- For use in low voltage, high frequency inverters, polarity protection applications.

### ITO-220AB



RoHS COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	MBRF	MBRF	MBRF	MBRF	MBRF	MBRF	Unit	
		1030CT	1040CT	1050CT	1060CT	1080CT	10100CT		
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	30	40	50	60	80	100	V	
Maximum RMS Voltage	V <sub>RMS</sub>	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	40	50	60	80	100	V	
Maximum Average Forward Rectified Current	I <sub(av)< sub=""></sub(av)<>	10.0						A	
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load ( JEDEC Method )	I <sub>FSM</sub>	120						A	
Peak Forward Voltage (Note1)	V <sub>F</sub>	IF=5A @T <sub>J</sub> =25°C	0.70		0.80		0.85		V
		IF=5A @T <sub>J</sub> =125°C	0.57		0.65		0.75		
		IF=10A @T <sub>J</sub> =25°C	0.80		0.90		0.95		
		IF=10A @T <sub>J</sub> =125°C	0.70		0.75		0.85		
Maximum DC Reverse Current @T <sub>J</sub> =25°C	I <sub>R</sub>	0.1						mA	
at Rated DC Blocking Voltage @T <sub>J</sub> =125°C		15							
Typical Junction Capacitance ( Note2 )	C <sub>J</sub>	170		220		300		pF	
Typical Thermal Resistance Junction to Case	R <sub>θJC</sub>	3.0				3.0		°C/W	
Junction Temperature Range	T <sub>J</sub>	-55 to +150						°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +175						°C	

Notes: 1.300us pulse width,2% duty cycle. 300uS.

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

3.The typical data above is for reference only.



Fig. 1 - Forward Current Derating Curve

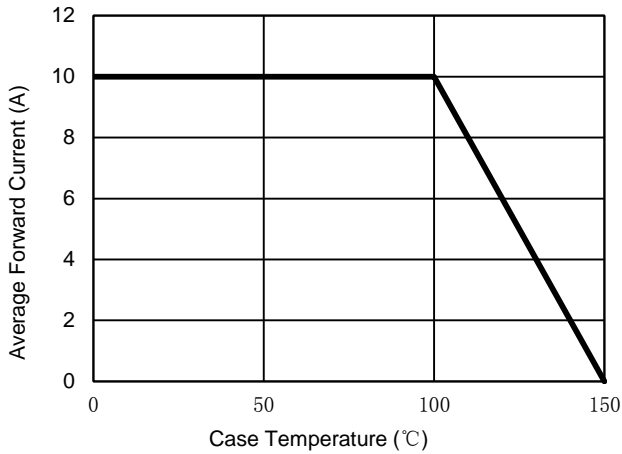


Fig. 2 - Maximum Non-Repetitive Surge Current

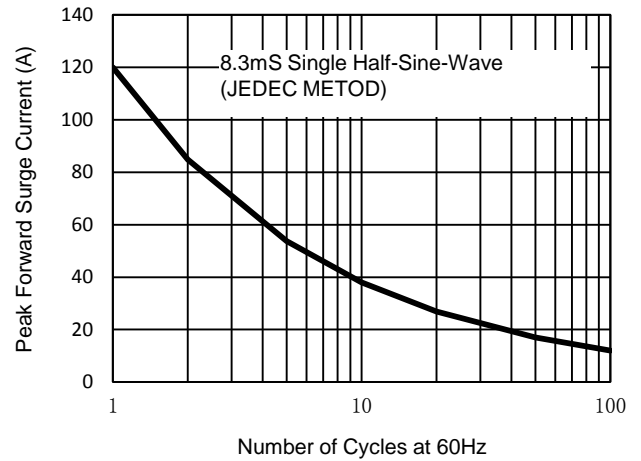


Fig. 3 - Typical Reverse Characteristics

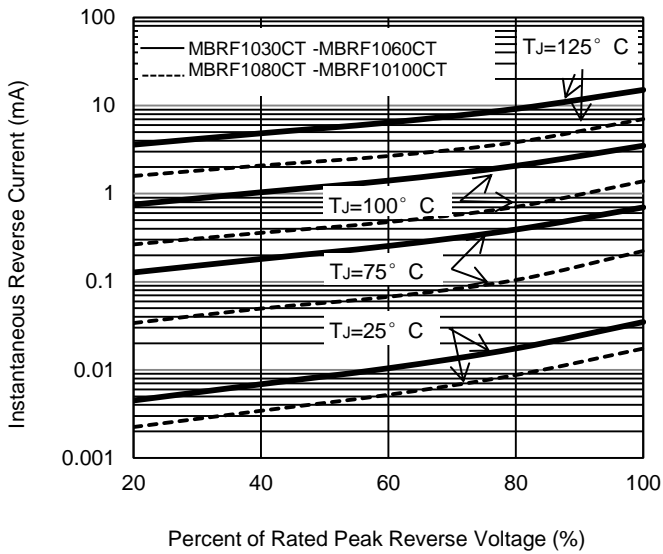


Fig. 4 - Typical Forward Characteristics

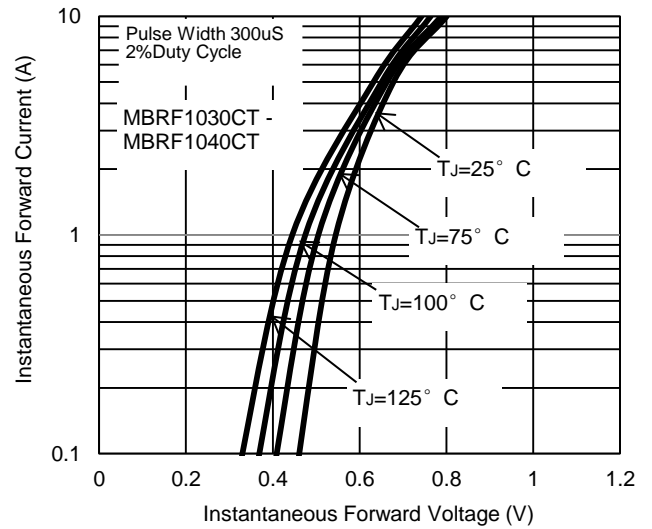


Fig. 5 - Typical Forward Characteristics

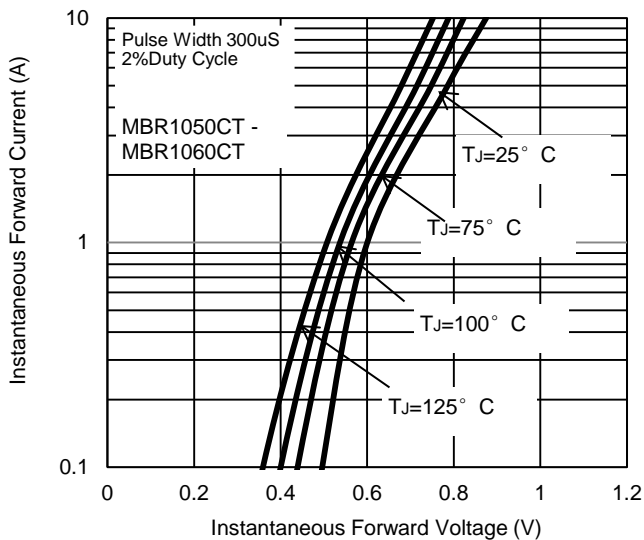
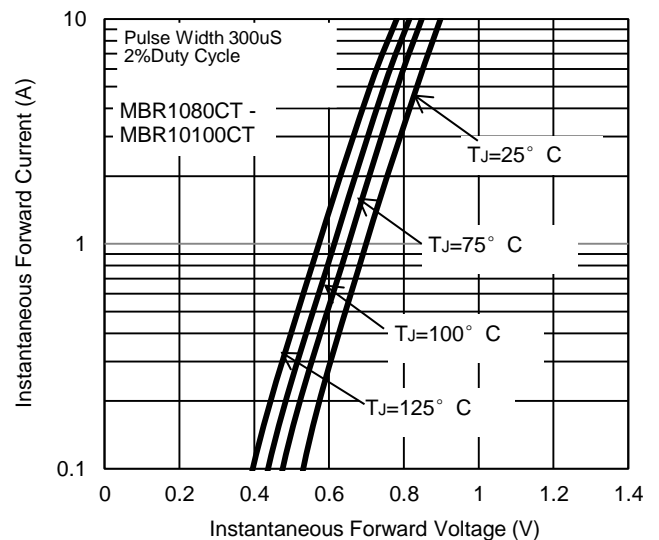


Fig. 6 - Typical Forward Characteristics



The curve above is for reference only.



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