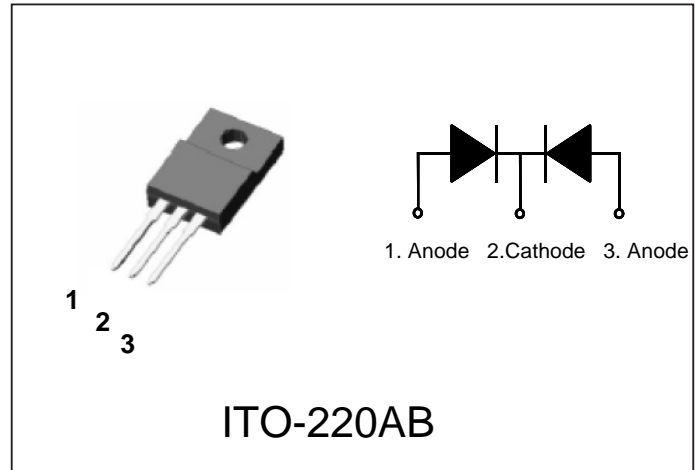


### FEATURES

- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications
- Electrostatic discharge standard, contact discharge 8KV, non-contact discharge 15KV



### Ordering Information

Type NO.	Marking	Package Code
MBRF20150C	MBRF20150C	ITO-220AB

### MAXIMUM RATING (Ta=25 °C)

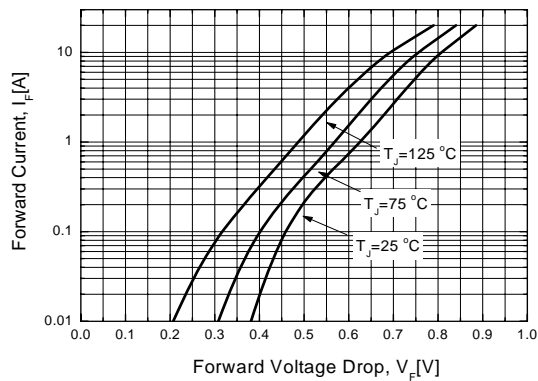
PARAMETET	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	150	V
Maximum RMS Voltage	VRMS	105	V
Maximum DC Blocking Voltage	VDC	150	V
Maximum Average3 Forward Rectified Current	IF(AV)	20	A
Maximum Forward Surge Current (Per diode) 60HZ Single Half-Sine Wave	IFSM	150	A
Typical Junction Capacitance	CJ	600	pF
Typical Thermal Resistance	R	2.0	°C/W
Operating Temperature Range	TJ	-55~+150	°C
Storage Temperature Range	TSTG	-55~+150	°C

### Electrical Characteristics (Per diode)

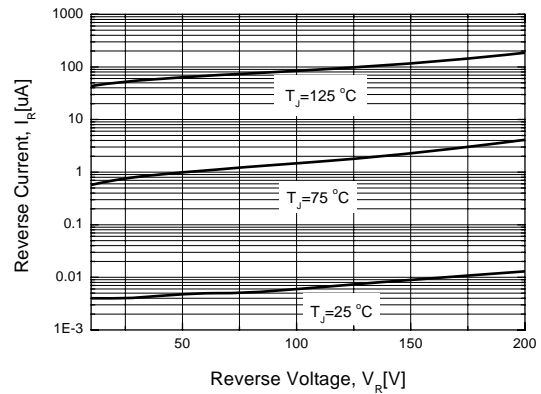
PARAMETET		SYMBOL	VALUE	UNIT
Maximum Instantaneous Forward Voltage	IF=10A (Tc=25°C)	V <sub>FM</sub>	0.9	V
	IF=10A (Tc=125°C)		0.8	
	IF=20A (Tc=25°C)		1.0	
	IF=20A (Tc=125°C)		0.9	
Maximum Instantaneous Reverse Current @rated Vr	(Tc=25°C)	I <sub>RM</sub>	0.2	mA
	(Tc=125°C)		5	

### Typical Performance Characteristics

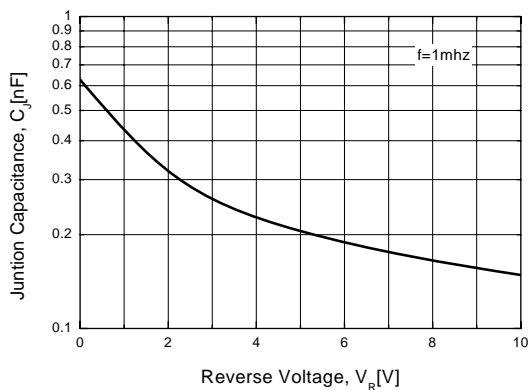
**Figure 1. Forward Current Characteristics**



**Figure 2. Reverse Leakage Current**



**Figure 3. Junction Capacitance**



**Figure 4. Power Derating**

