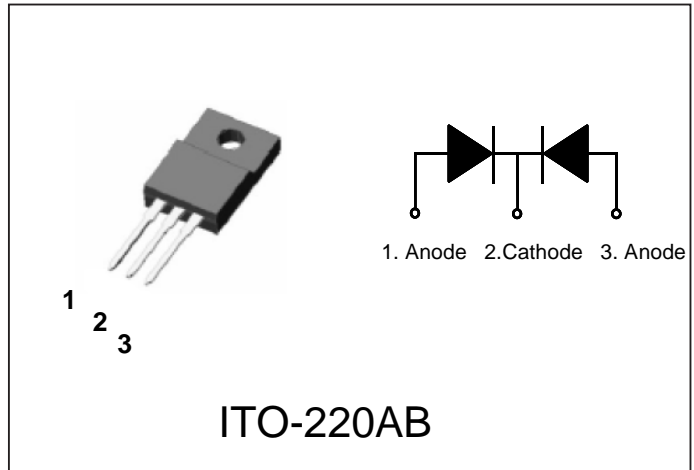


FEATURES

- 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



Ordering Information

Type NO.	Marking	Package Code
MBRF30100C	MBRF30100C	ITO-220AB

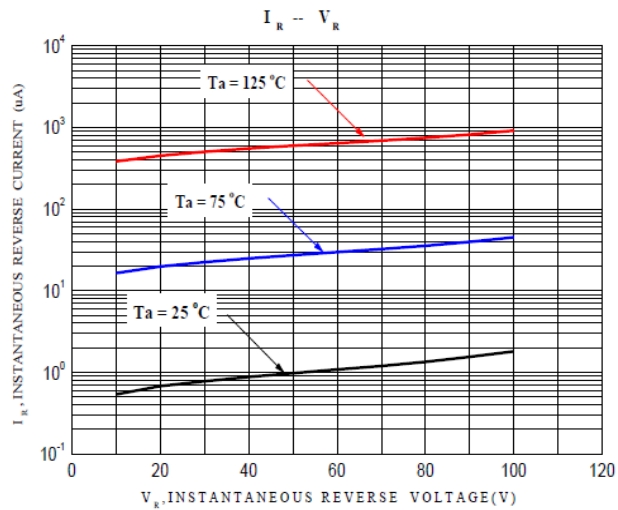
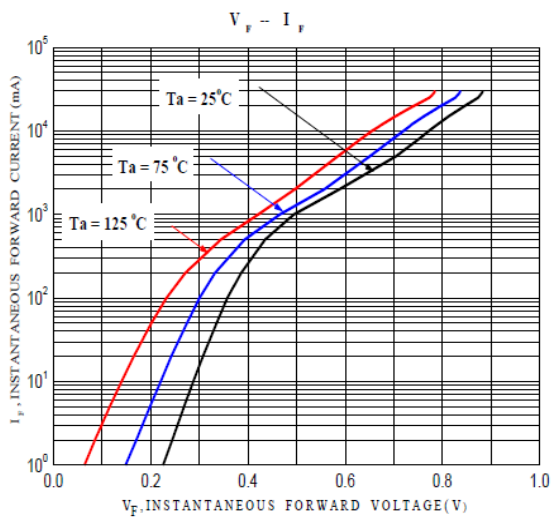
MAXIMUM RATING (Ta=25 °C)

PARAMETET	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	V
Maximum DC Reverse Voltage	V _R	100	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average ³ Forward Rectified Current	I _{F (AV)}	30	A
Maximum Forward Surge Current (Per diode) 60HZ Single Half-Sine Wave	I _{FSM}	350	A
Typical Junction Capacitance	C _J	300	pF
Typical Thermal Resistance	R _{θJC}	2.0	°C/W
Operating Temperature Range	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics (Per diode)

PARAMETET		SYMBOL	VALUE	UNIT
Maximum Instantaneous Forward Voltage	IF=15A (Tc=25°C)	V _{FM}	0.88	V
	IF=15A (Tc=125°C)		0.8	
	IF=30A (Tc=25°C)		0.95	
	IF=30A (Tc=125°C)		0.84	
Maximum Instantaneous Reverse Current @rated Vr	(Tc=25°C)	I _{RM}	0.01	mA
	(Tc=125°C)		10	

Typical Performance Characteristics



120

