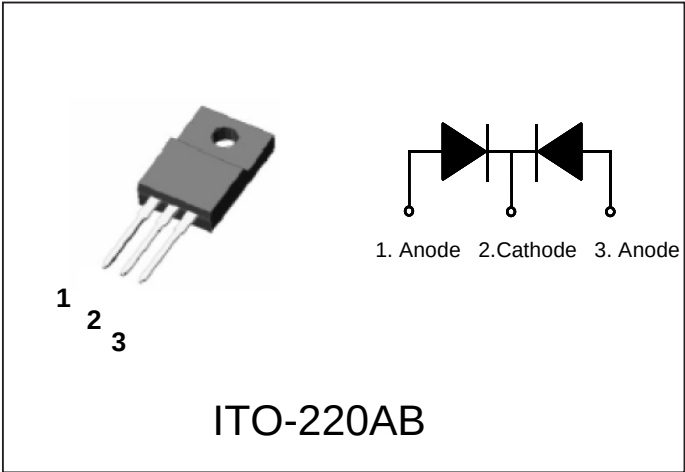


FEATURES

- 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
MBRF10100C	MBRF10100C	ITO-220AB

MAXIMUM RATING (Ta=25°C)

PARAMETET	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum DC Reverse Voltage	VR	100	V
Maximum Average3 Forward Rectified Current	IF (AV)	10	A
Maximum Forward Surge Current (Per diode) 60HZ Single Half-Sine Wave	IFSM	80	A
Typical Junction Capacitance	CJ	300	pF
Typical Thermal Resistance	R JC	1. 5	°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=5A (Tc=25 °C)	VFM	0.85	V
	IF=5A (Tc=125 °C)		0.8	
	IF=10A (Tc=25 °C)		0.95	
	IF=10A (Tc=125 °C)		0.84	
Maximum Instantaneous Reverse Current @rated Vr	(Tc=25 °C)	IRM	0.01	mA
	(Tc=125 °C)		5	

Typical Performance Characteristics

