

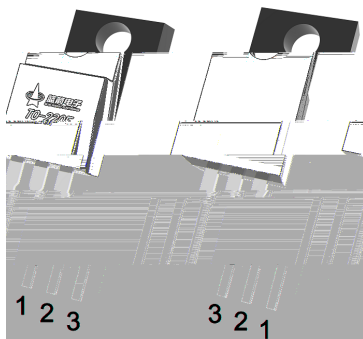
Rev.I May.-2026

TO-220F

Schottky Barrier Diode in a TO-220F Plastic Package.

Low power loss,high efficiency. HF Product.

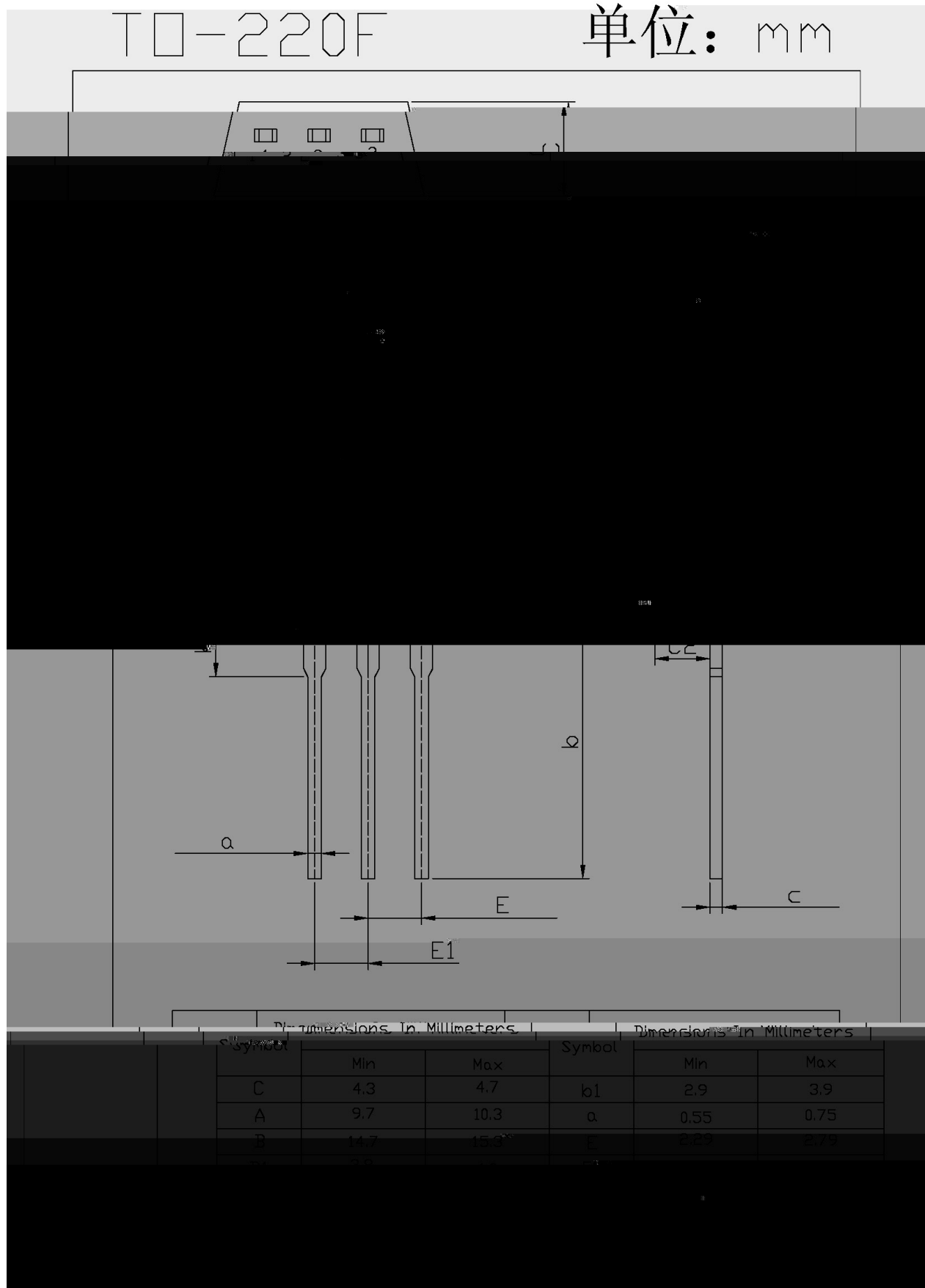
For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications.

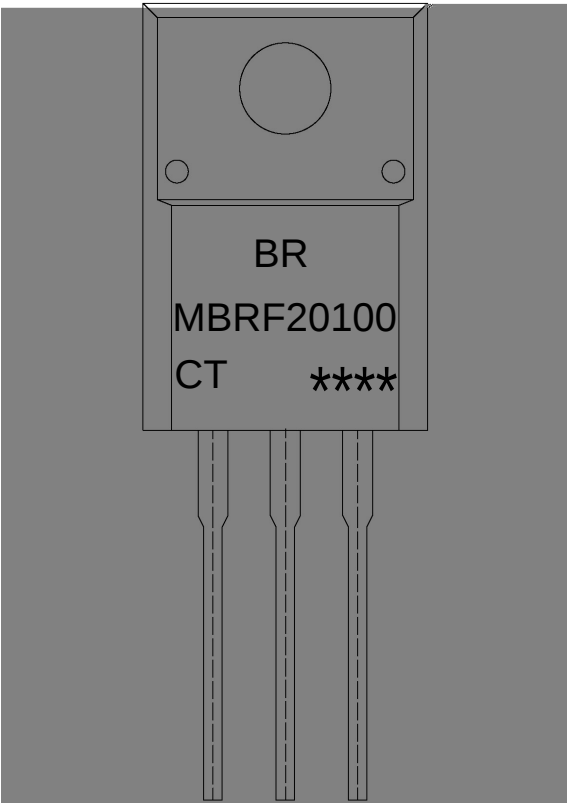


PIN1 Anode PIN 2 Cathode PIN 3

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RWM}	100	V
Reverse forward current	I_{FRM}	20	A
Average Forward Current	$I_{F(AV)}$	10	A
Average Forward Current total	$I_{F(AV) total}$	20	A
Non Repetitive Peak Surge Current	I_{FSM}	150	A
Peak Repetitive Reverse Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta Jc}$	3.5	/W
Junction Temperature Range	T_j	175	
Storage Temperature Range	T_{stg}	-55 175	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A(T_c=25^\circ C)$			0.85	V
		$I_F=10A(T_c=125^\circ C)$			0.7	V
		$I_F=20A(T_c=25^\circ C)$			0.95	V
		$I_F=20A(T_c=125^\circ C)$			0.85	V
Instantaneous Reverse Current	I_R	$V_R=100V(T_c=25^\circ C)$			0.15	mA
		$V_R=100V(T_c=125^\circ C)$			150	mA
Critical rate of rise of reverse voltage	dv/dt				10000	V/ μs

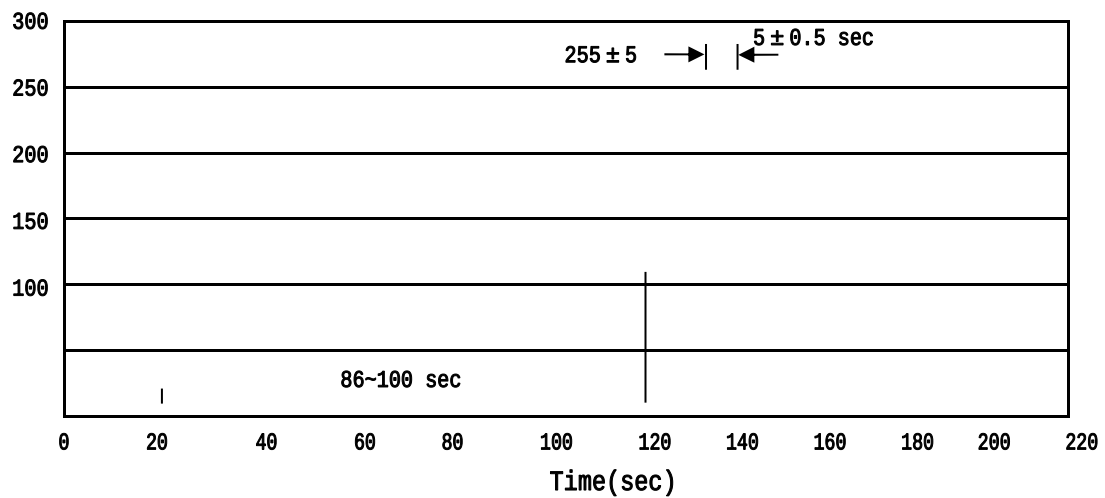




BR
MBRF20100
CT:

Note:

BR:	Company Code
MBRF20100:	Product Type Code
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.



Note:

1. Preheating: 25~150 , Time: 60~90sec.
2. Peak Temp.: 255±5 , Duration: 5±0.5sec.
3. Cooling Speed: 2~10 /sec.

270±5 10±1 sec. Temp.: 270±5 Time: 10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180