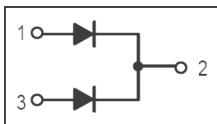


Schottky Barrier Diode in a TO-220F Plastic Package.

Low power loss,high efficiency.

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

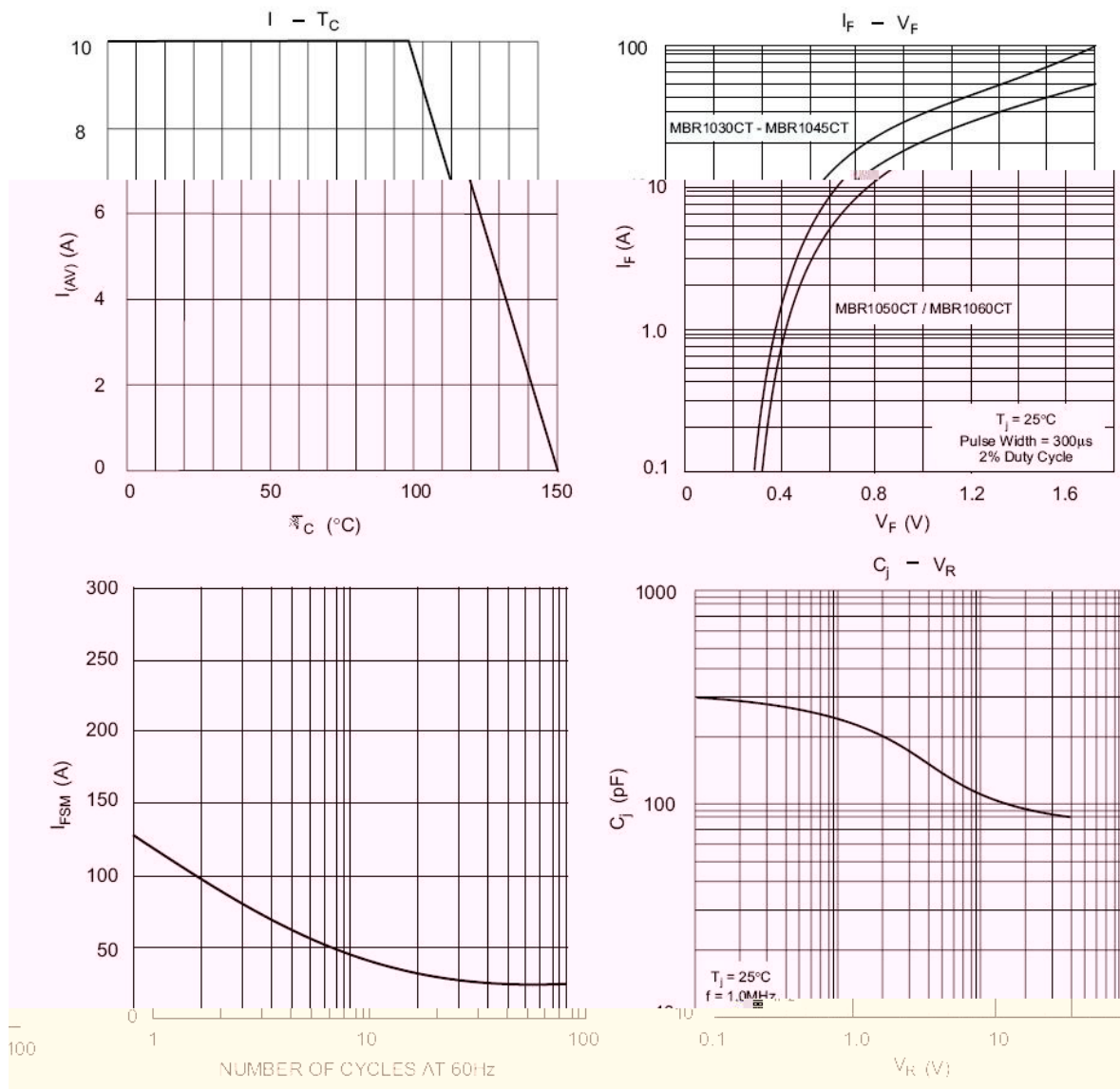


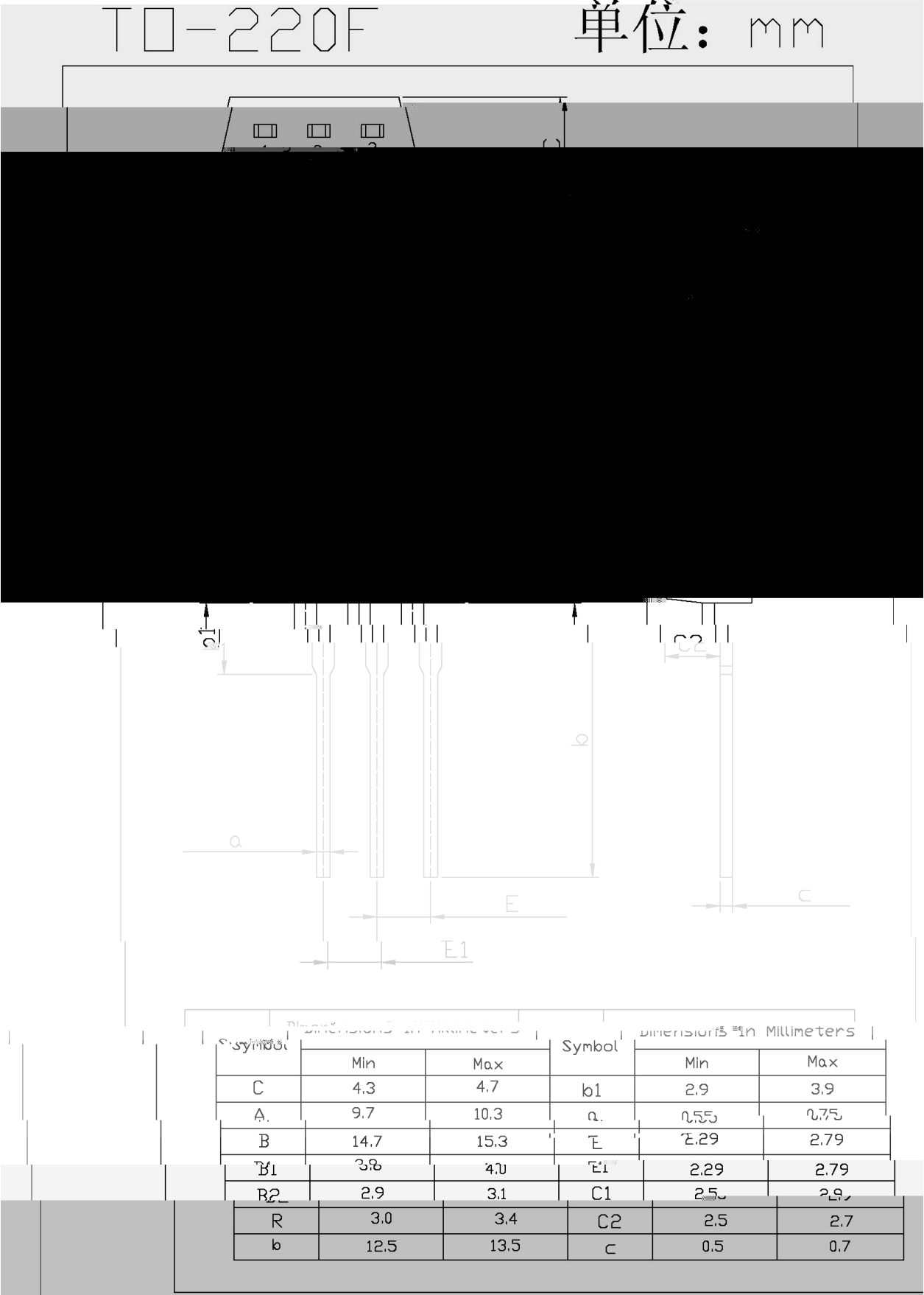
PIN1 Anode PIN 2 Cathode PIN 3 Anode

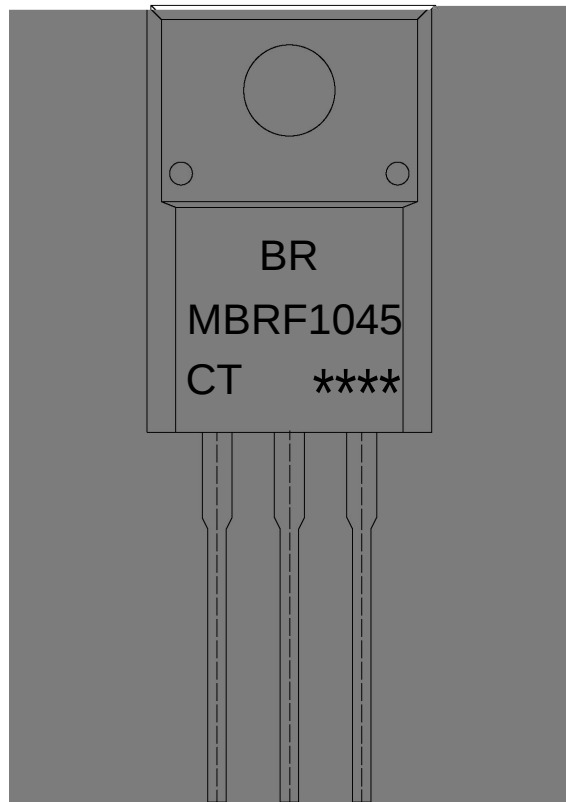
See Marking Instructions

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
RMS Reverse Voltage	$V_{R(RMS)}$	31.5	V
Average Rectified Output Current	I_O	10	A
Repetitive Peak Reverse Current	I_{RRM}	1.0	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal Resistance, Junction to Case	R_{JC}	30	K/W
Junction and Storage Temperature Range	T_j, T_{stg}	-65~150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 5.0A(T_c = 25^\circ C)$			0.57	V
		$I_F = 5.0A(T_c = 125^\circ C)$			0.70	V
		$I_F = 10A(T_c = 25^\circ C)$			0.84	V
Instantaneous Reverse Current	I_{RM}	$T_c = 25^\circ C$			0.1	mA
		$T_c = 125^\circ C$			15	mA
Typical Junction Capacitance	C_j				150	pF
Voltage Rate of Change	dv/dt				1000	V/ s







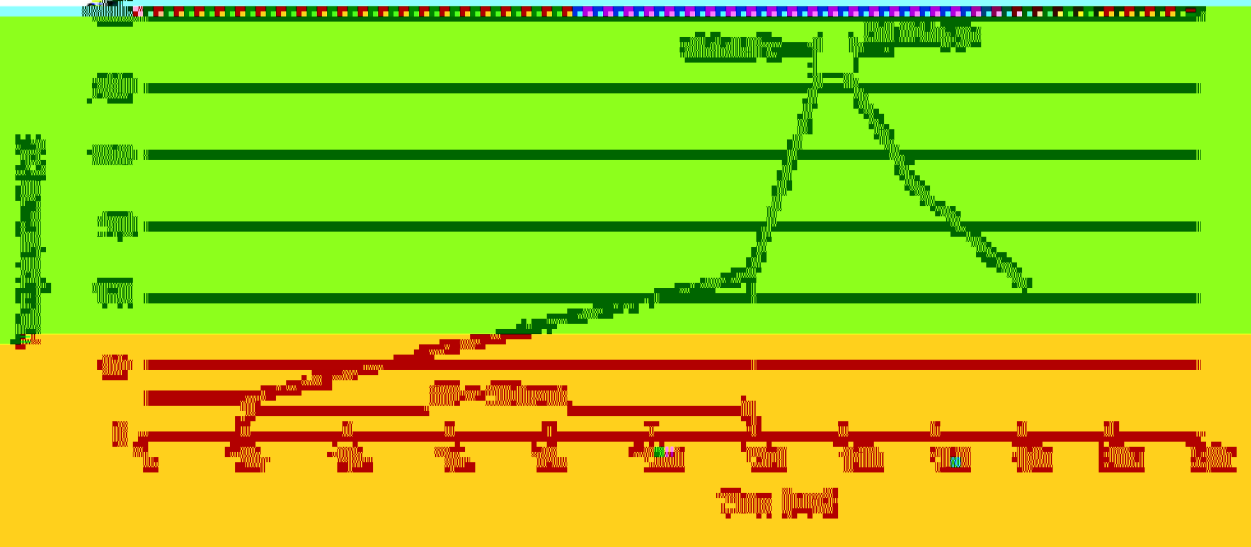
Note:

BR: Company Code

MBRF1045: Product Type.

CT: Internal Structure

****: Lot No. Code, code change with Lot No.



Note:

- 1

25 150

60 90sec;
- 2

255 5

5 0.5sec;
- 3

2 10

/sec.
- 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