

/ Descriptions

TO-220

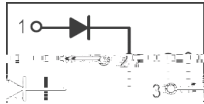
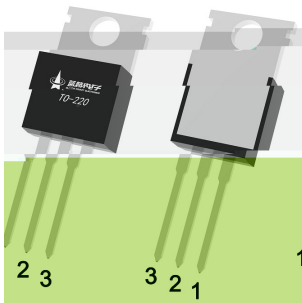
Schottky Barrier Diode in a TO-220 Plastic Package.

/ Features

Low power loss, high efficiency, HF Product.

/ Applications

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

/ Equivalent Circuit**/ Pinning**

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ Marking

See Marking Instructions.

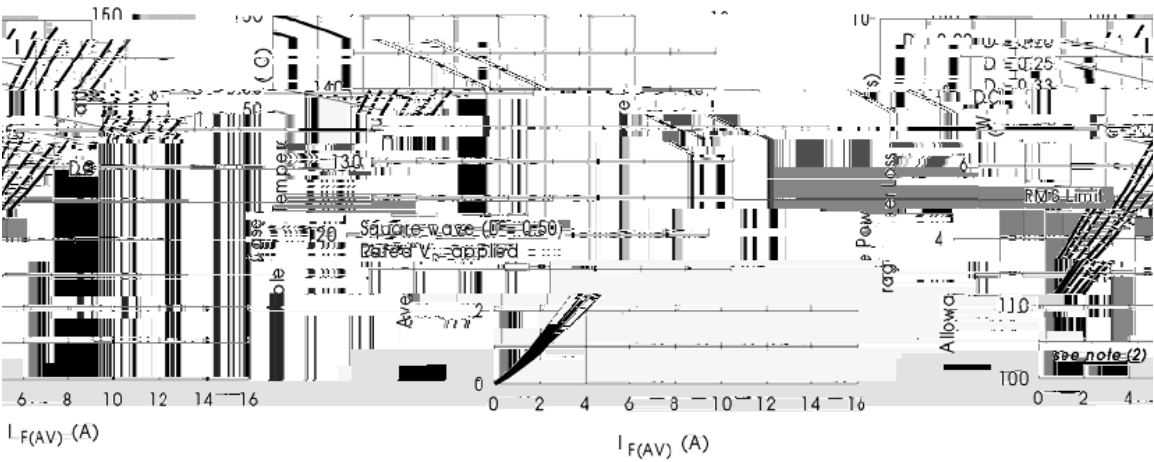
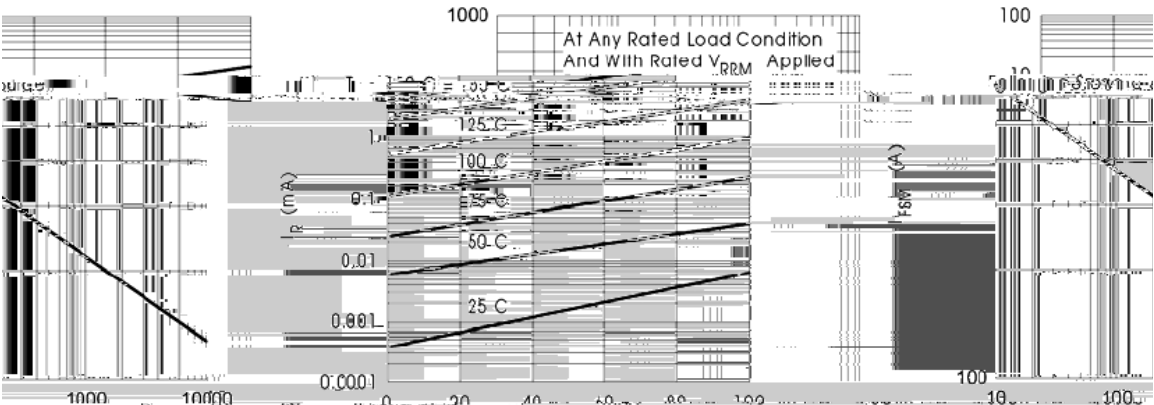
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Peak Repetitive Forward Current	I_{FRM}	20	A
Average Rectified Forward Current	$I_{F(AV)}$	10	A
	$I_{F(AV)(total)}$	20	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	150	A
Repetitive Peak Reverse Surge Current	I_{RRM}	0.5	A
Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0	/W
Junction Temperature Range	T_j	175	
Storage Temperature Range	T_{stg}	-55 175	

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=10A(T_C=25^\circ\text{C})$			0.85	V
		$I_F=10A(T_C=125^\circ\text{C})$			0.7	V
		$I_F=20A(T_C=25^\circ\text{C})$			0.95	V
		$I_F=20A(T_C=125^\circ\text{C})$			0.85	V
Instantaneous Reverse Current	I_R	$V_R=100V(T_C=25^\circ\text{C})$			0.15	mA
		$V_R=100V(T_C=125^\circ\text{C})$			150	mA
Voltage Rate of Change	dv/dt				10000	V/ μs

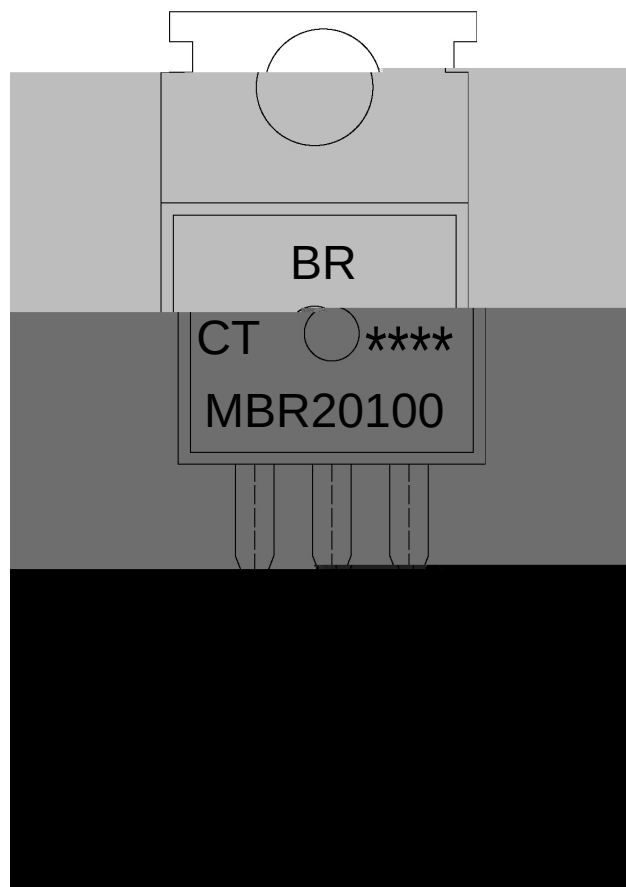
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

MBR20100

CT:

Note:

BR: Company Code

MBR20100 Product Type Code

CT: Internal Structure

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

