

Descriptions

This is Schottky Diode in a TO-220 Plastic Package.

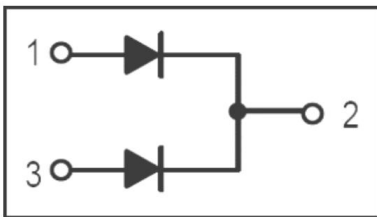
Features

- Low power loss
- High efficiency.
- HF Product

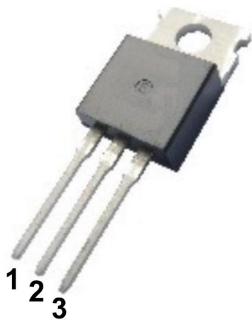
Applications

- For use in low voltage
- High frequency inverters
- Free wheeling, and polarity protection applications

Equivalent Circuit



Pinning



PIN1: Anode PIN 2,4: Cathode PIN 3: Anode

hFE Classifications & Marking

See Marking Instructions

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{RM}	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	V
Average Rectified Forward Current	$I_{F(AV)}$	2×5	A
Non Repetitive Peak Surge Current	I_{FSM}	125	A
Thermal resistance, junction to case	$R_{\theta Jc}$	2.5	°C/W
Junction Temperature Range	T_{JMAX}	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

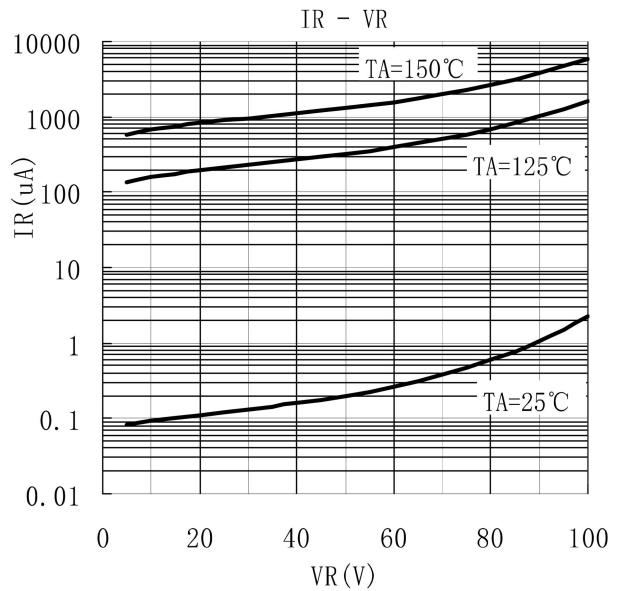
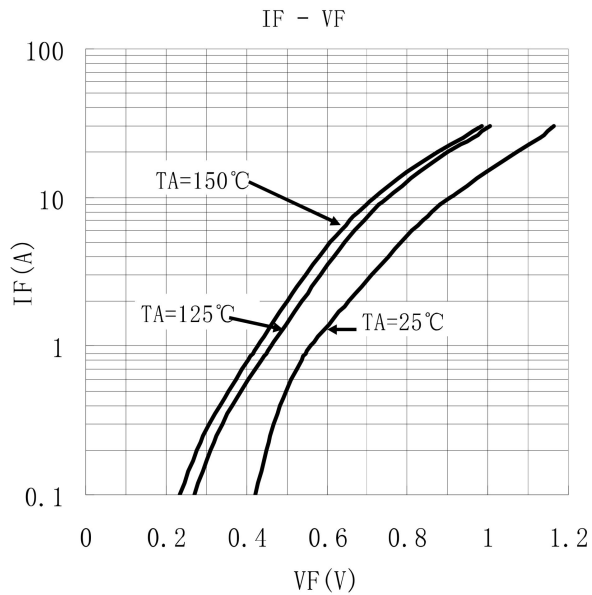
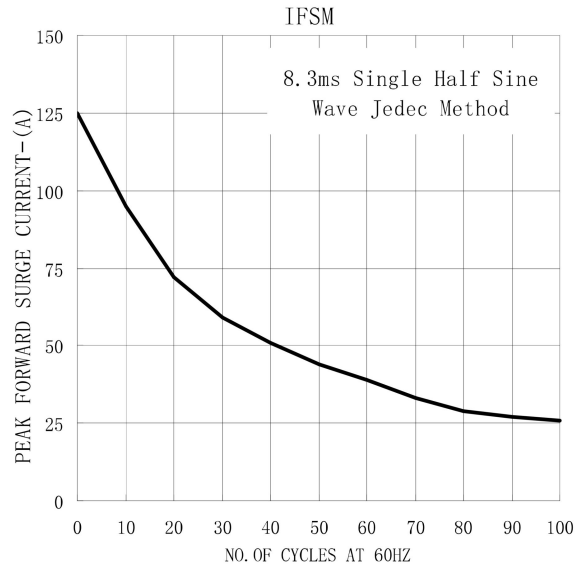
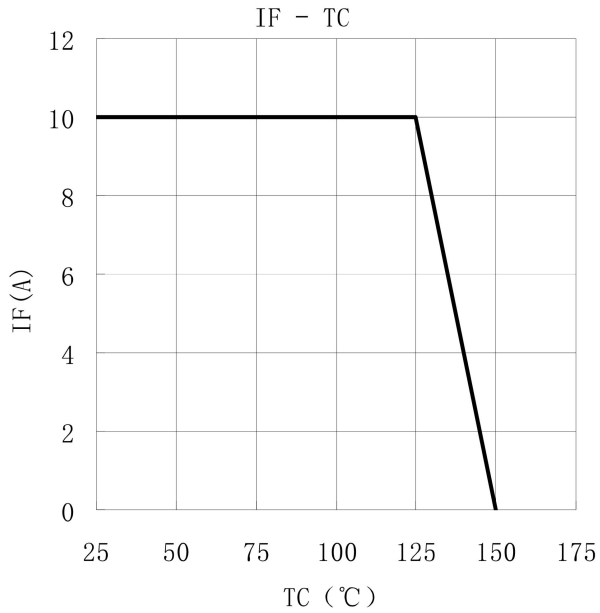
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=0.3mA$	100			V
Forward Voltage	V_F	$I_F=5A$ $T_J=25^\circ C$			0.85	V
		$I_F=5A$ $T_J=125^\circ C$			0.75	V
		$I_F=10A$ $T_J=25^\circ C$			0.95	V
		$I_F=10A$ $T_J=125^\circ C$			0.85	V
Instantaneous Reverse Current	I_R (Note 1)	$V_R=100V$ $T_J=25^\circ C$			10	uA
		$V_R=70V$ $T_J=125^\circ C$			1.0	mA
		$V_R=100V$ $T_J=125^\circ C$			5.0	mA

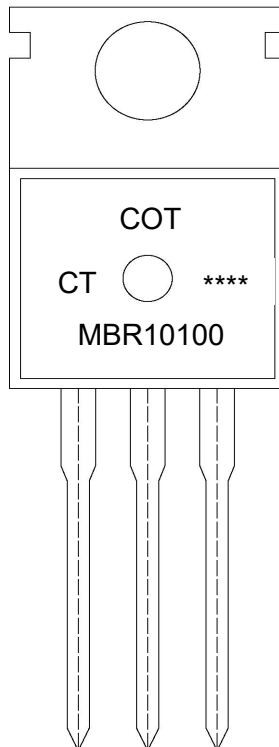
Notes:

1. Short duration pulse test used to minimize self-heating effect.
2. Unless otherwise noted, values for the parameters of a single chip

Electrical Characteristic Curve



Marking Instructions



Note:

- COT: Company Code
- MBR10100: Product Type.
- CT: Internal Structure
- *****: *: Inner Code * : Year Code **: Week Code *: Lot Code

Packaging SPEC

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
T0-220/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
T0-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

Package Dimensions

T0-220

单位: mm

