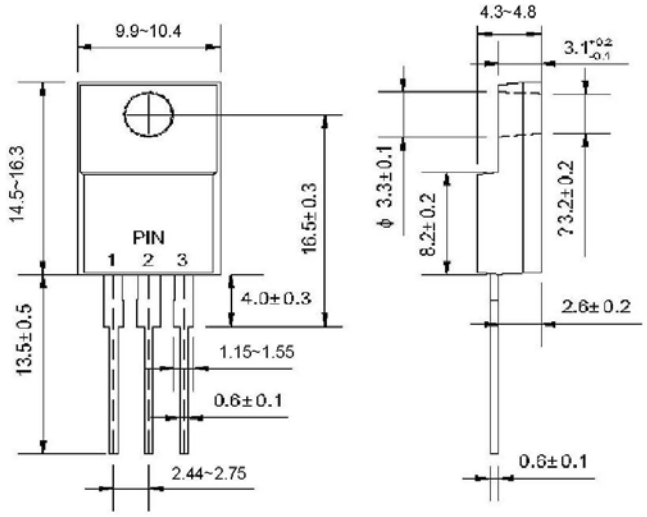
MBRF2020CT THRU MBRF20100CT

Schottky Barrier Rectifier
Reverse Voltage - 20 to 100 V
Forward Current - 20 A

ITO-220AB



Dimensions in millimeters

Features
- Low power loss
- High efficiency
- Low forward voltage
- High current capability
- High surge capacity

Mechanical Data
- **Case:** ITO-220AB, molded plastic body
- **Terminals:** Solderable per MIL-STD-750, Method 2026
- **Polarity:** As marked
- **Mounting position:** Any

Maximum Ratings and Characteristics
Ratings at 25℃ ambient temperature unless otherwise specified.

Parameter	Symbols	MBRF2020CT	MBRF2040CT	MBRF2045CT	MBRF2060CT	MBRF2080CT	MBRF2090CT	MBRF20100CT	Units
	Marking	MBRF2020CT	MBRF2040CT	MBRF2045CT	MBRF2060CT	MBRF2080CT	MBRF2090CT	MBRF20100CT	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	45	60	80	90	100	V
Maximum Working Peak Reverse Voltage	V_{RWM}	14	26	31.5	42	56	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	40	45	60	80	90	100	V
Maximum Average Forward Rectified Current at T_C = 100℃	$I_{F(AV)}$	20							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimpos on Rated Load ed	I_{FSM}	150							A
Maximum Forward Voltage per Leg at I_F = 10 A	V_F	-			-	0.8			V
at I_F = 20 A		0.65			0.85	0.95			
Maximum DC Reverse Current at T_A = 25℃	I_R	0.5							mA
at Rated DC Blocking Voltage at T_A = 100℃		50							
Maximun Junction Capacitance	C_J	400							pF
Operating Junction Temperature Range	T_j	- 50 to + 150							℃
Storage Temperature Range	T_{stg}	- 50 to + 150							℃

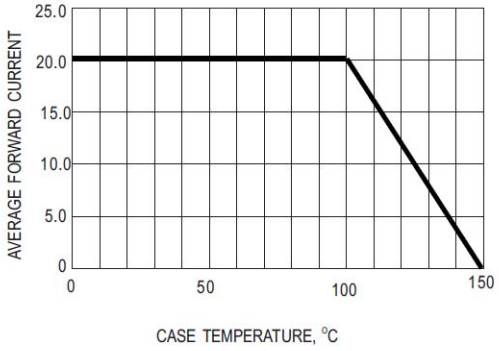


Fig.1- FORWARD CURRENT DERATING CURVE

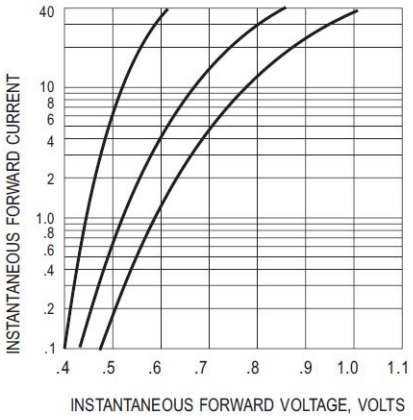


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

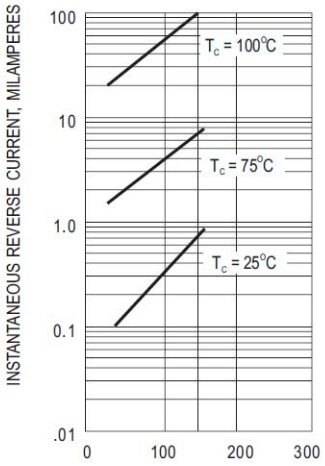


Fig.3- TYPICAL REVERSE CHARACTERISTIC

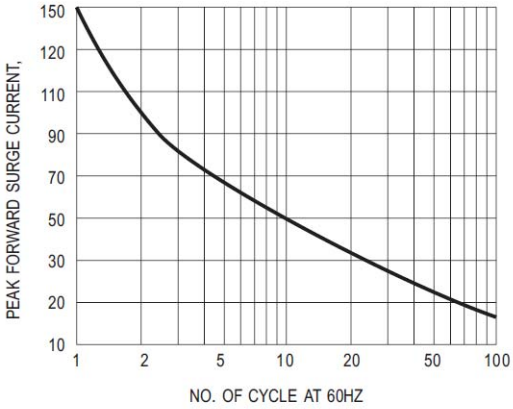


Fig.4- MAXIMUM NON-REPETITIVE SURGE CURRENT

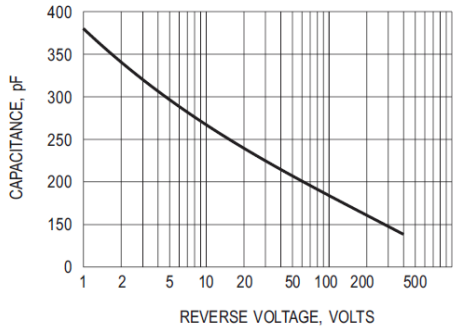


Fig.5- TYPICAL JUNCTION CAPACITANCE