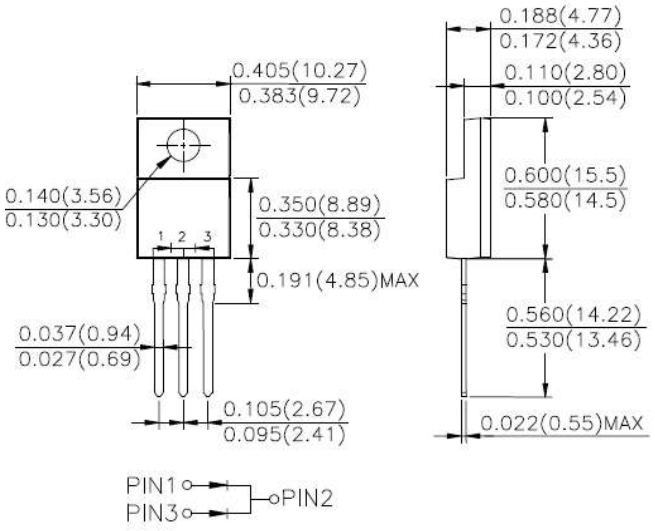
MBRF10L200CT

Schottky Barrier Rectifier
Reverse Voltage - 200 V
Forward Current - 10 A

ITO-220AB



Dimensions in millimeters

Features
- Low power loss, High efficiency
- High current capability
- Low forward voltage drop
- High surge capacity
- Ultra high speed switching

Mechanical Data
- **Case:** ITO-220AB, molded plastic body
- **Terminals:** Solderable per MIL-STD-202, Method 208 guranteed
- **Polarity:** As marked
- **Mounting position:** Any

Maximum Ratings and Characteristics
Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	MBRF10L200CT	Units
	Marking	MBRF10L200CT	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum Working Peak Reverse Voltage	V_{RWM}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimpos on Rated Load(JEDEC method)	I_{FSM}	125	A
Maximum Forward Voltage at I_F = 5 A at I_F = 10 A	V_F	 0.85 0.9	V
Maximum DC Reverse Current at T_A = 25℃ at Rated DC Blocking Voltage at T_A = 125℃	I_R	0.1 10	mA
Typical Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	30	℃/W
Typical Junction Capacitance at V_R = 4 V, f = 1 MHz	C_J	150	pF
Operating Junction Temperature Range	T_j	- 50 to + 150	℃
Storage Temperature Range	T_{stg}	- 50 to + 150	℃

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Fig.1 - Forward Current Derating Curve

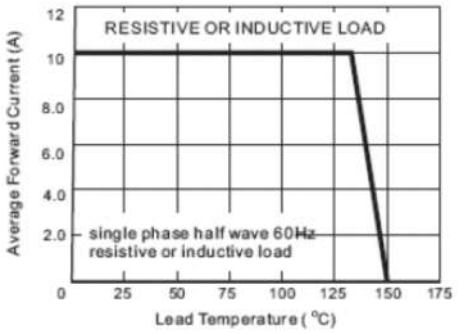

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

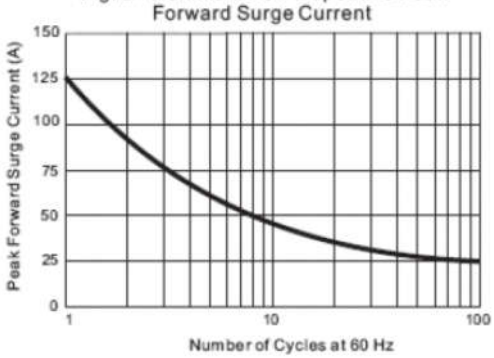

Fig. 3.1 - Typical Instantaneous Forward Characteristics

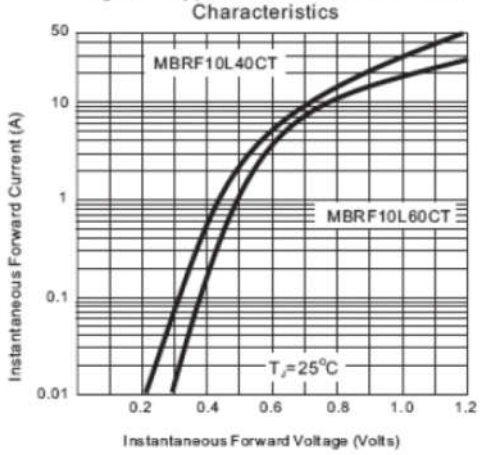

Fig. 3.2 - Typical Instantaneous Forward Characteristics

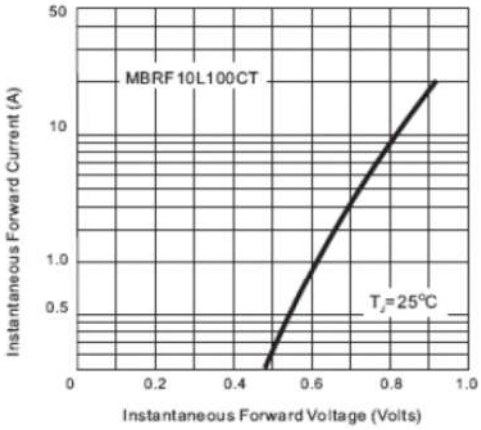

Fig. 3.3 - Typical Instantaneous Forward Characteristics

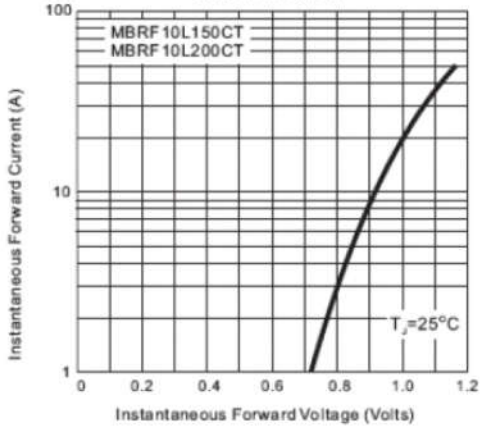

Fig. 4 - Typical Reverse Characteristics