

MBR3040CT THRU MBR30200CT

Schottky Barrier Rectifier

Reverse Voltage - 40 to 200 V

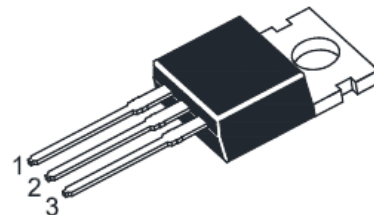
Forward Current - 30 A

Features

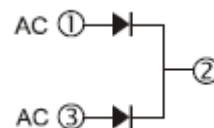
- Low power loss
- High efficiency
- High current capability

Mechanical Data

- **Case:** TO-220FB, molded plastic body
- **Terminals:** Solderable per MIL-STD-750, Method 2026
- **Polarity:** As marked
- **Mounting position:** Any



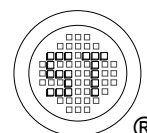
TO-220FB Plastic Package



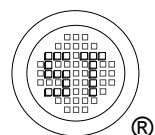
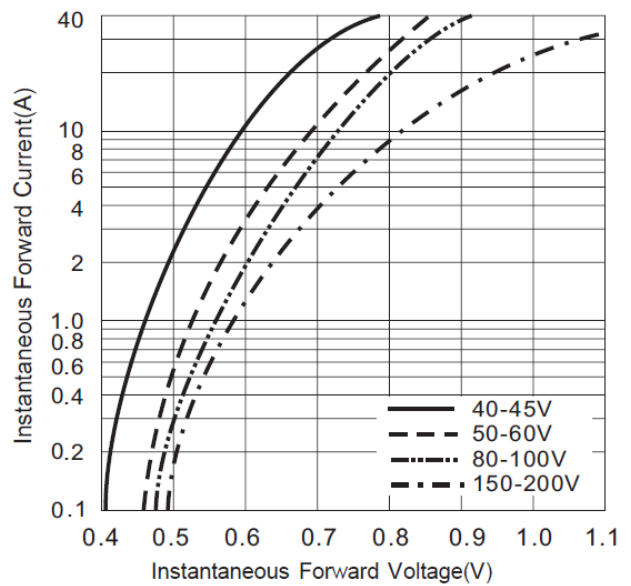
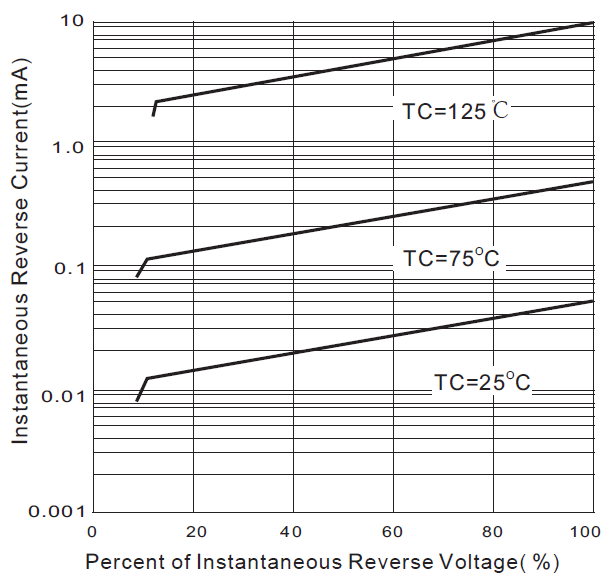
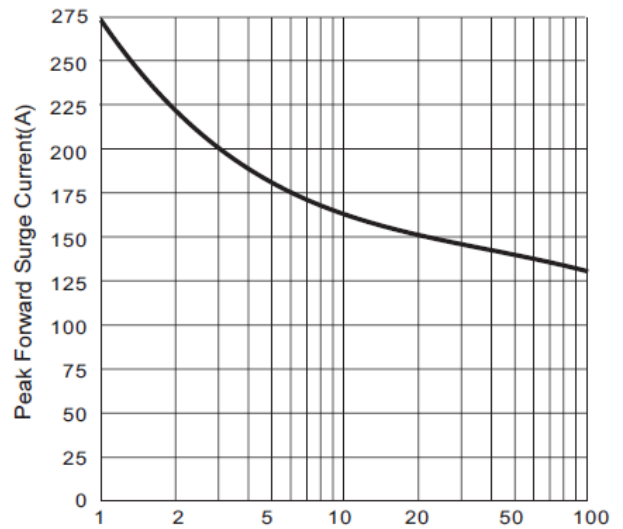
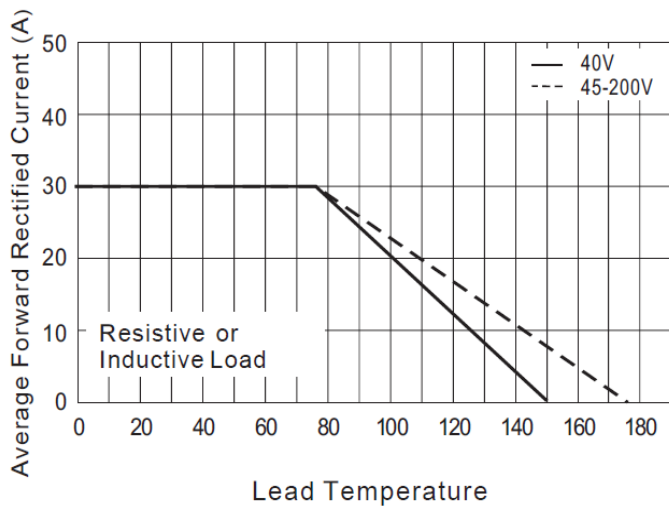
Maximum Ratings and Characteristics

Ratings at $T_a = 25^\circ\text{C}$ ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load. for capacitive load current derate by 20%.

Parameter	Symbols	MBR30 40CT	MBR30 60CT	MBR30 80CT	MBR30 100CT	MBR30 150CT	MBR30 200CT	Units
	Marking	MBR30 40CT	MBR30 60CT	MBR30 80CT	MBR30 100CT	MBR30 150CT	MBR30 200CT	-
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	150	200	V
Maximum Working Peak Reverse Voltage	V _{RWM}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	30						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimpos on Rated Load (JEDEC Method)	I _{FSM}	275						A
Maximum Forward Voltage per Leg at 15 A	V _F	0.7	0.75	0.8		0.9		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _a = 25°C T _a = 125°C	I _R	0.1 20						mA
Typical Thermal Resistance	R _{θJC}	1.4						°C/W
Operating Junction Temperature Range	T _j	- 55 to + 150						°C
Storage Temperature Range	T _{stg}	- 55 to + 150						°C



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Package Outline Dimensions (Units: mm)

TO-220FB

