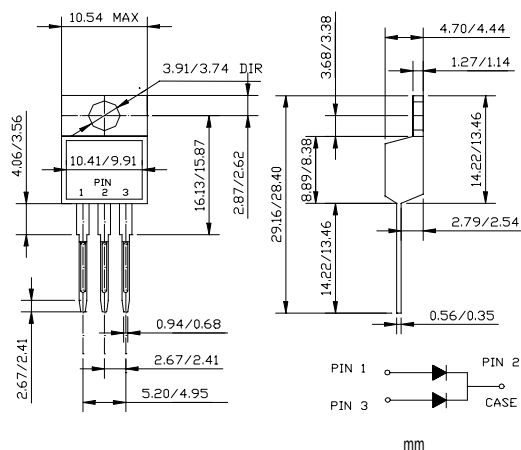


MBR1040CT THRU MBR10200CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 40 to 200Volts FORWARD CURRENT - 10.0 Amperes

TO-220AB



FEATURES

- ◇ High surge capacity.
- ◇ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ◇ Metal silicon junction, majority carrier conduction.
- ◇ High current capacity, low forward voltage drop.
- ◇ Guard ring for over voltage protection.

MECHANICAL DATA

- ◇ Case: JEDEC TO-220AB, molded plastic body
- ◇ Terminals: Leads, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.08 ounce, 2.24 grams
- ◇ Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR1040CT	MBR1045CT	MBR1050CT	MBR1060CT	MBR1080CT	MBR1090CT	MBR10100CT	MBR10150CT	MBR10200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	I _{F(AV)}	10									A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150									A
Maximum Forward Voltage at 5A, per leg	V _F	0.7		0.75		0.8			0.9		V
Maximum DC Reverse Current T _j =25 °C at Rated DC Blocking Voltage T _j =125°C	I _R	0.05 20									mA
Typical Thermal Resistance	R _{θJC}	2									°C / W
Operating and Storage Junction Temperature Range	T _J ,T _{STG}	-55 to + 150	-65 to + 175								°C

