



# MBRF1020CT THRU MBRF10200CT

## 10.0 AMP SCHOTTKY BARRIER RECTIFIERS



### FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Good for switching mode application

### MECHANICAL DATA

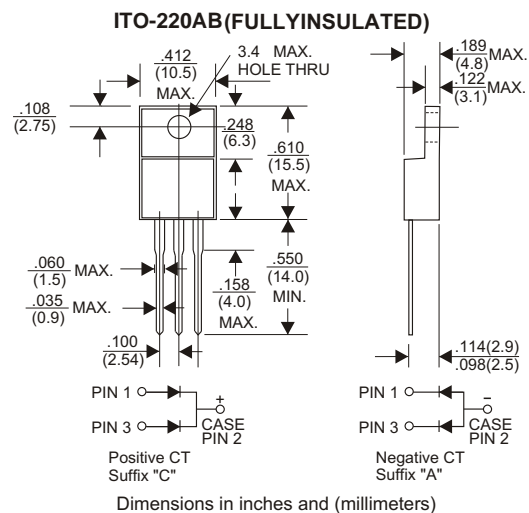
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked
- \* Mounting position: Any

### VOLTAGE RANGE

20 to 200 Volts

### CURRENT

10.0 Amperes



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	MBRF1020CT	MBRF1045CT	MBRF1060CT	MBRF1080CT	MBRF10100CT	MBRF10150CT	MBRF10200CT	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	45	60	80	100	150	200	V	
Maximum RMS Voltage	14	32	42	56	70	105	140	V	
Maximum DC Blocking Voltage	20	45	60	80	100	150	200	V	
Maximum Average Forward Rectified Current at Tc=125°C	10							A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150							A	
Maximum Instantaneous Forward Voltage at 10A	0.55	0.7	0.85	0.92			V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C			Ta=100°C			0.2	50	mA
Typical Junction Capacitance (Note1)	420							pF	
Typical Thermal Resistance RθJC (Note 2)	2.5							°C/W	
Operating Temperature Range Tj	-65 — +150							°C	
Storage Temperature Range Tstg	-65 — +150							°C	

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

# RATING AND CHARACTERISTIC CURVES (MBRF1020 THRU MBRF10200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

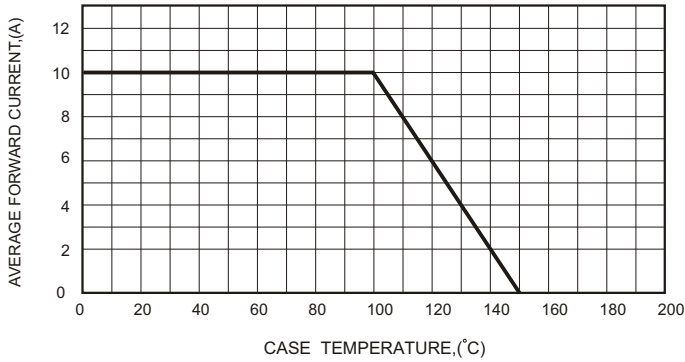


FIG.2-TYPICAL FORWARD CHARACTERISTICS

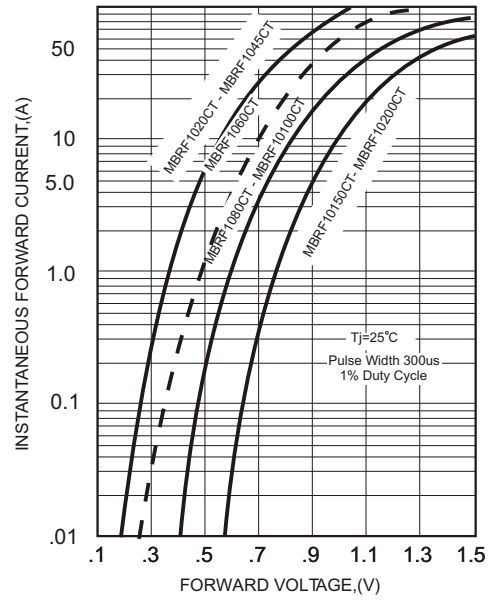


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

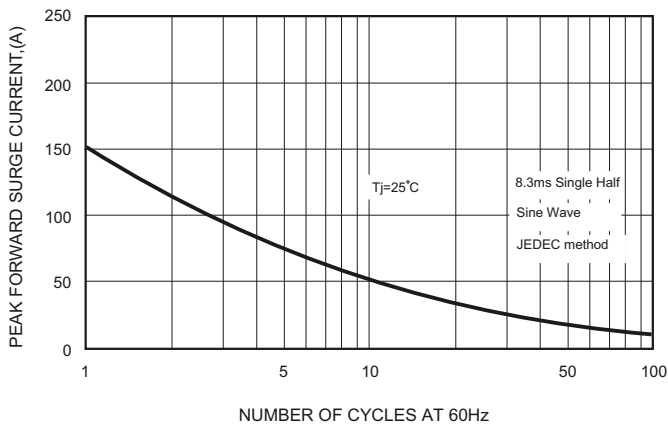
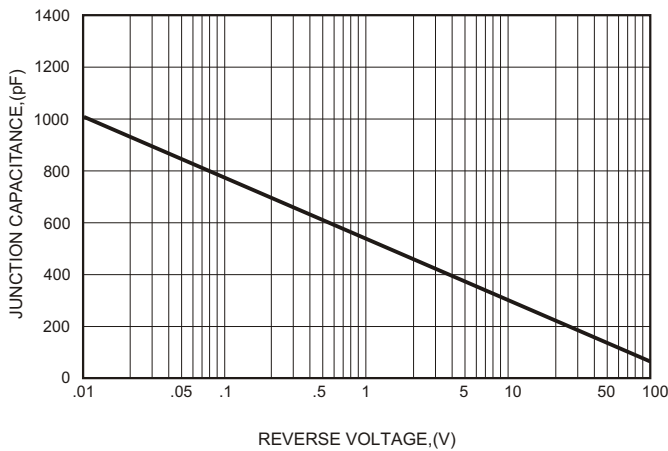


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



FIG.4-TYPICAL JUNCTION CAPACITANCE



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