MBR3020(F)~MBR30200(F) 30.0Amp Schottky Barrier Rectifiers

Features

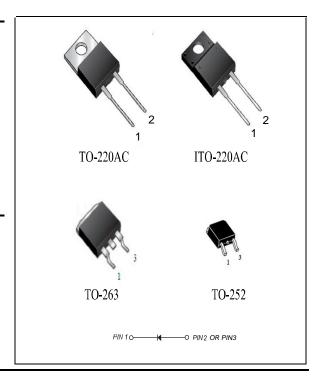
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C,MAX. for 10 seconds

Mechanical Data

Case: (I)TO-220AC,TO-263,TO-252 molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marked Mounting Position: Any



Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	MBR 3020(F)	MBR 3040(F)	MBR 3045(F)	MBR 3060(F)	MBR 30100(F)	MBR 30150(F)	MBR 30200(F)	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	40	45	60	100	150	200	VOLTS
Maximum RMS voltage	VRMS	14	28	32	42	70	105	140	VOLTS
Maximum DC blocking voltage	VDC	20	40	45	60	100	150	200	VOLTS
Maximum average forward rectified current	I(AV) 30.0							Amna	
(see fig.1)	I(AV)	30.0							Amps
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	200.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 30.0A	VF	0.55	0.60		0.70	0.85	0.9	95	Volts
Maximum DC reverse current T _A =25℃		0.15 0.1						mA	
at rated DC blocking voltage TA=100℃	l I _R	40.0				20.0			IIIA
Typical junction capacitance (NOTE 1)	CJ	800 350					pF		
Typical thermal resistance (NOTE 2)	Rөлс	24							°C/W
Operating junction temperature range	TJ	-55 to +125 -55 to +150						°C	
Storage temperature range	Тѕтс	-55 to +150							°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case