Shanghai Sinble Electronics Co.,Ltd

MBR2020L(F)CT~MBR20200L(F)CT 20.0Amp Low VF Schottky Barrier Rectifiers

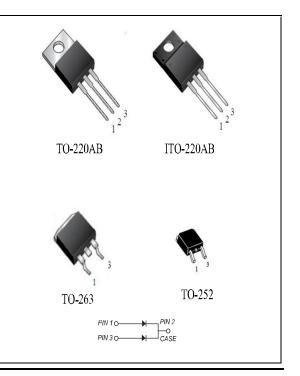
Features

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

Mechanical Data

Case: (I)TO-220AB,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

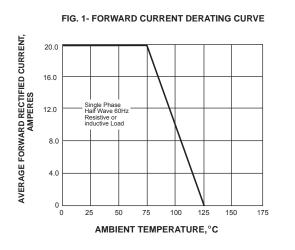
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MBR 2020L(F)CT	MBR 2040L(F)CT	MBR 2045L(F)CT	MBR 2060L(F)CT	MBR 20100L(F)CT	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	40	45	60	100	VOLTS
Maximum RMS voltage	Vrms	14	28	32	42	70	VOLTS
Maximum DC blocking voltage	Vdc	20	40	45	60	100	VOLTS
Maximum average forward rectified current	l(AV) 20.0						Amps
(see fig.1)	I(AV)	20.0					
Peak forward surge current							
8.3ms single half sine-wave superimposed on	IFSM	FSM 175.0					Amps
rated load (JEDEC Method)							
Maximum instantaneous forward voltage at 10.0A	Vf		0.42		0.46	0.65	Volts
Maximum DC reverse current Ta=25°C		1 0.5				mA	
at rated DC blocking voltage Ta=100℃	IR	IR 40.0				20.0	
Typical junction capacitance (NOTE 1)	CJ	600 230					pF
Typical thermal resistance (NOTE 2)	Rejc	48					°C/W
Operating junction temperature range	TJ	-55 to +125					°C
Storage temperature range	Тѕтс	-55 to +150					°C

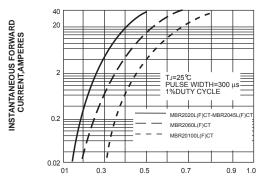
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case

Ratings And Characteristic Curves MBR2020L(F)CT~MBR20200L(F)CT







INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

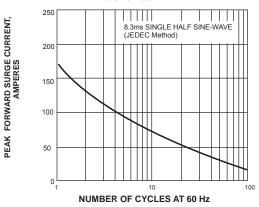
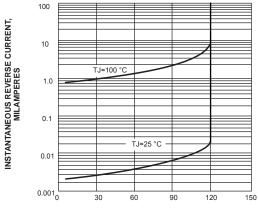
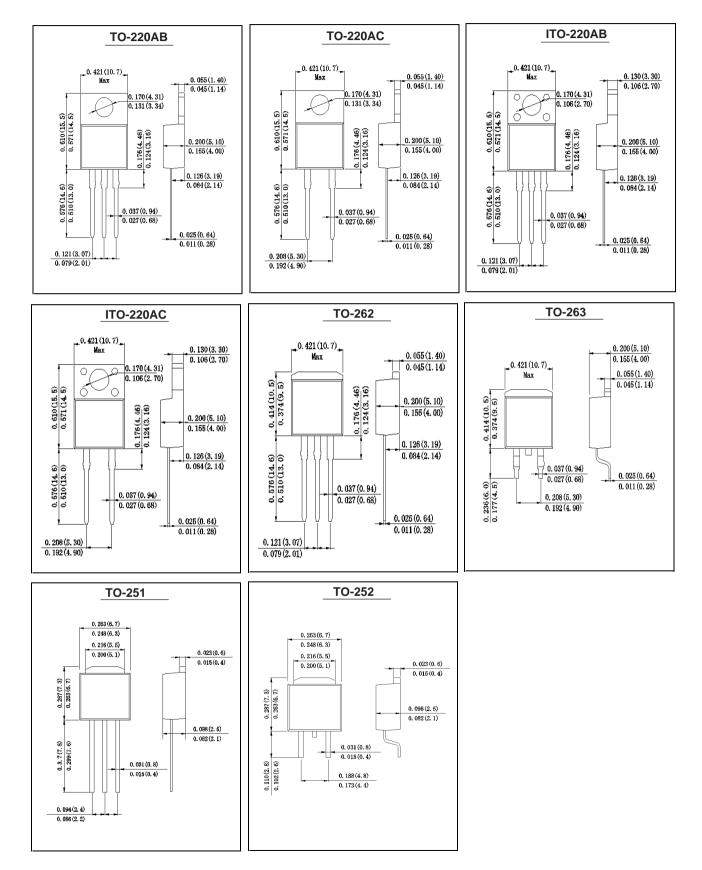


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%

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Outline Drawing

Note: All dimensions in inches and (millimeters)