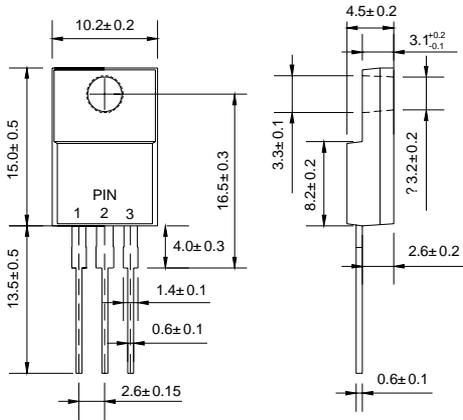




Diode Semiconductor Korea **MBR1020FCT THRU MBR10100FCT**
SCHOTTKY BARRIER RECTIFIER

ITO-220AB



Dimensions in inches and (millimeters)

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, 0.25" (6.35mm) from case for 10 seconds

MECHANICAL DATA

Case: ITO-220AB molded plastic body
Terminals: Leads solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.080 ounce, 2.24 grams

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 1040FCT	MBR 1045FCT	MBR 1050FCT	MBR 1060FCT	MBR 1080FCT	MBR 10100FCT	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	40	45	50	60	80	100	VOLTS	
Maximum RMS voltage	V_{RMS}	28	32	35	42	56	70	VOLTS	
Maximum DC blocking voltage	V_{DC}	40	45	50	60	80	100	VOLTS	
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	10.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0						Amps	
Maximum instantaneous forward voltage at 5.0A	V_F	0.55		0.75		0.85		Volts	
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R	15.0		50.0				mA	
Typical junction capacitance (NOTE 1)	C_J	550		450					
Typical thermal resistance (NOTE 2)	R_{qjc}	2.0						°C/W	
Operating junction temperature range	T_J	-65 to +125			-65 to +150				°C
Storage temperature range	T_{STG}	-65 to +150						°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Thermal resistance from junction to case

