

## 10 AMPERES SCHOTTKY BARRIER RECTIFIERS

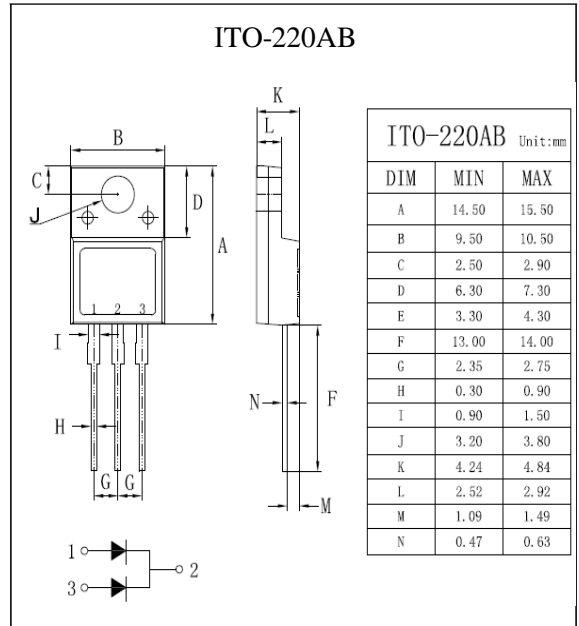
<b>VOLTAGE</b>	40 to 200 Volts
<b>CURRENT</b>	10 Amperes

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Lead free in comply with EU RoHS.

### MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any



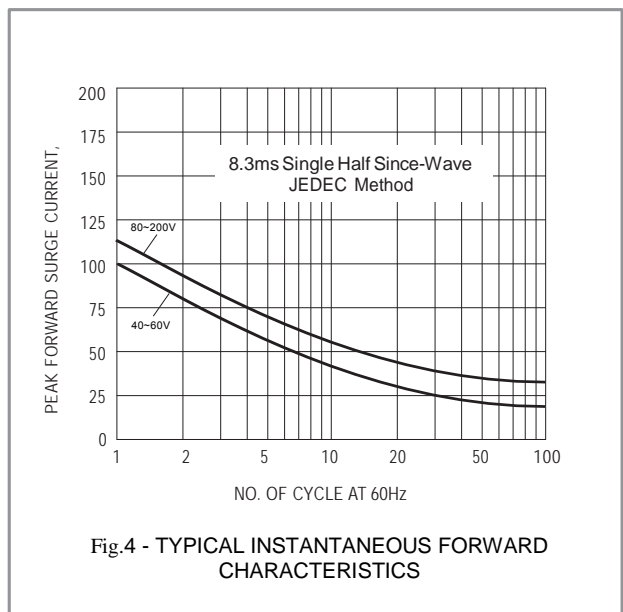
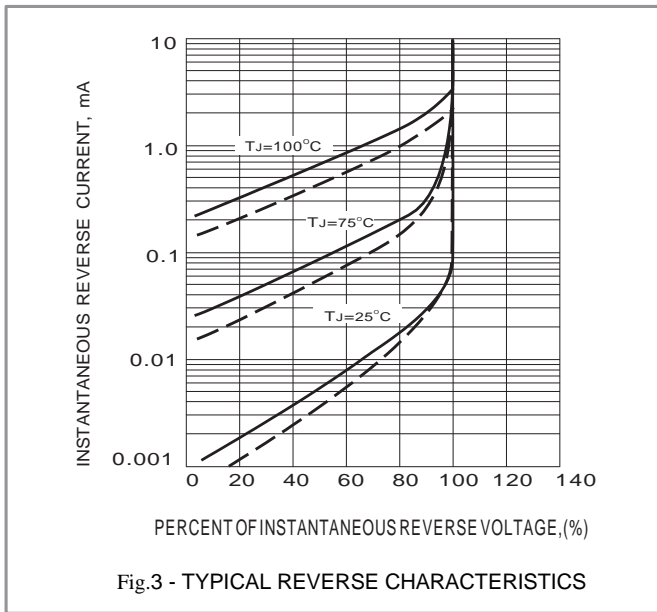
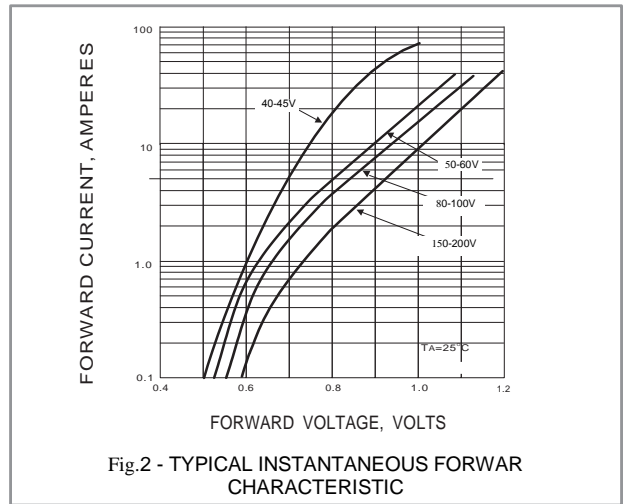
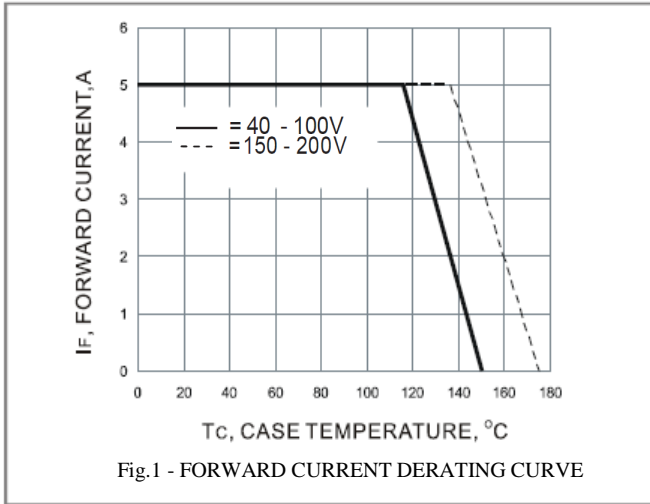
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBRF 1040CTD	MBRF 1045CTD	MBRF 1050CTD	MBRF 1060CTD	MBRF 1080CTD	MBRF 1090CTD	MBRF 10100CTD	MBRF 10150CTD	MBRF 10200CTD	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)	$I_{FSM}$	100				110				A	
Maximum Forward Voltage at 5A, per leg	$V_F$	0.7		0.8		0.85		0.92		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T=25^{\circ}C$ $T=125^{\circ}C$	$I_R$	0.05				0.02				mA	
		20				20					
Typical Thermal Resistance	$R_{\theta JC}$	3									°C / W
Operating and Storage Junction Temperature Range	$T_J, T_{STG}$	-55 to + 150							-55 to + 175		°C

## RATING AND CHARACTERISTIC CURVES



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