

DATA SHEET

MBR10100FCT SERIES

DUAL SCHOTTKY BARRIER RECTIFIER

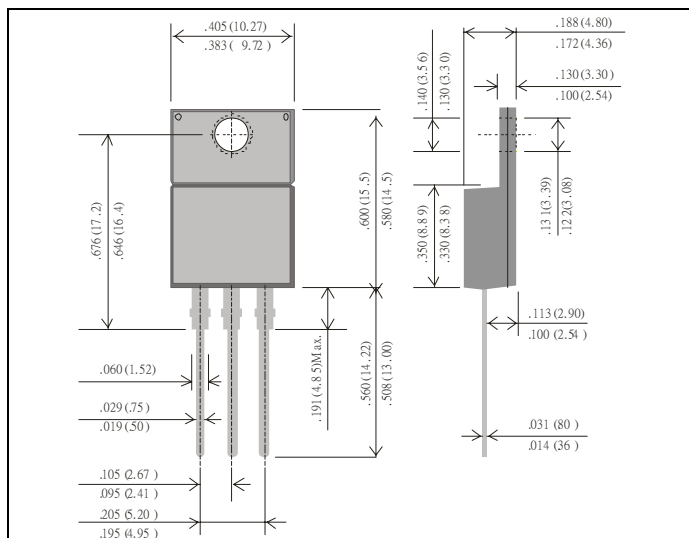
VOLTAGE 100~200 Volts **CURRENT** 10 Ampere

FEATURES

- HIGH RELIABILITY
- LOW LEAKAGE
- LOW FORWARD VOLTAGE DROP
- HIGH CURRENT CAPABILITY

MECHANICAL DATA

- CASE: MOLDED PLASTIC BLACK BODY, TO-220AB
- EPOXY: UL 94V-O RATE FLAME RETARDANT
- LEAD: MIL-STD-750 METHOD 2026 GUARANTEED
- MOUNTING POSITION: ANY
- WEIGHT: 0.08 OUNCE, 2.24 GRAMS



CASE : ITO-220AB

DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

R RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	MBR10100FCT	MBR10120FCT	MBR10150FCT	MBR10200FCT	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	100	120	150	200	V
MAXIMUM RMS VOLTAGE	V_{RMS}	70	84	105	140	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	100	120	150	200	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT PER LEG (SEE FIG.1)	I_{AV}	10				A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	150				A
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO +150				°C
OPERATING TEMPERATURE RANGE	T_J	-55 TO +150				°C
TYPICAL THERMAL RESISTANCE	$R_{\theta JC}$	4.4				°C/W

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER		SYMBOL	MBR10100FCT	MBR10120FCT	MBR10150FCT	MBR10200FCT	UNITS
MAXIMUM FORWARD VOLTAGE AT 5A PER LEG		V _F	0.85	0.87	0.90	0.92	V
MAXIMUM DC REVERSE CURRENT	25°C	I _R	0.1				mA
	100°C		10				

NOTES : 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE

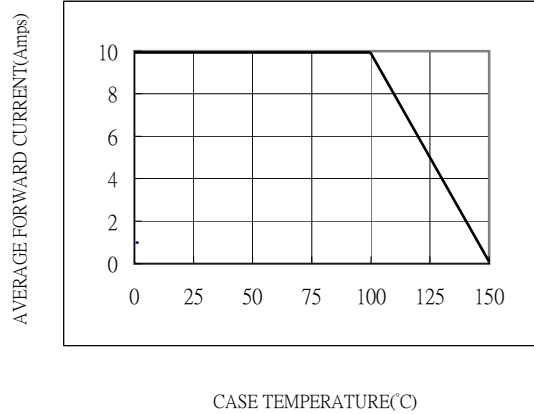


Fig.1-FORWARD CURRENT DERATING CURVE

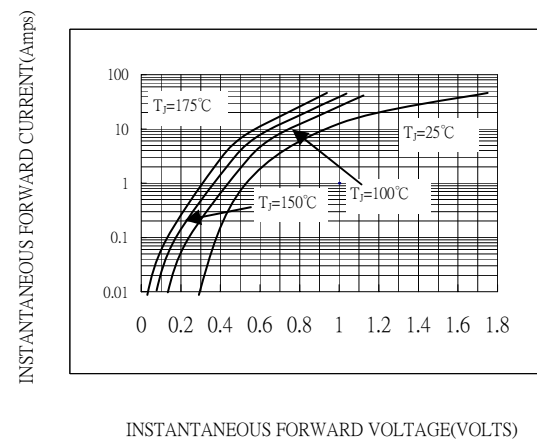


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

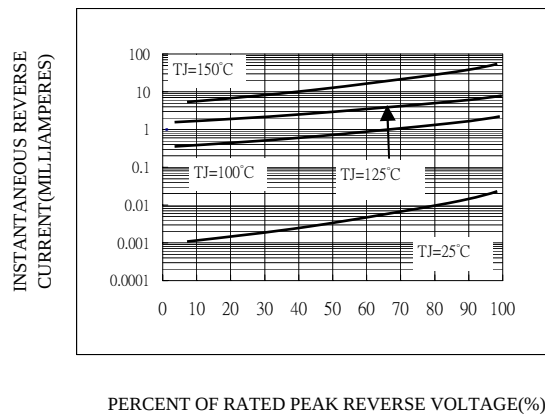


Fig.3-TYPICAL REVERSE CHARACTERISTICS

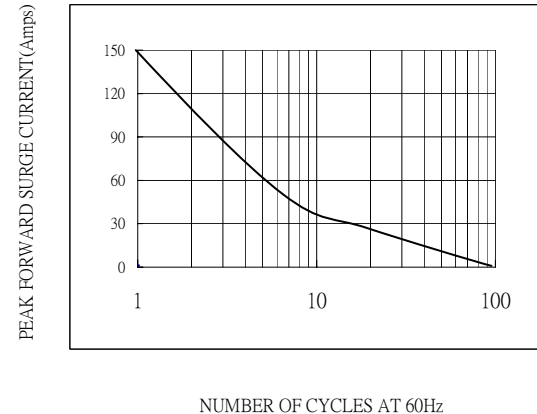


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT