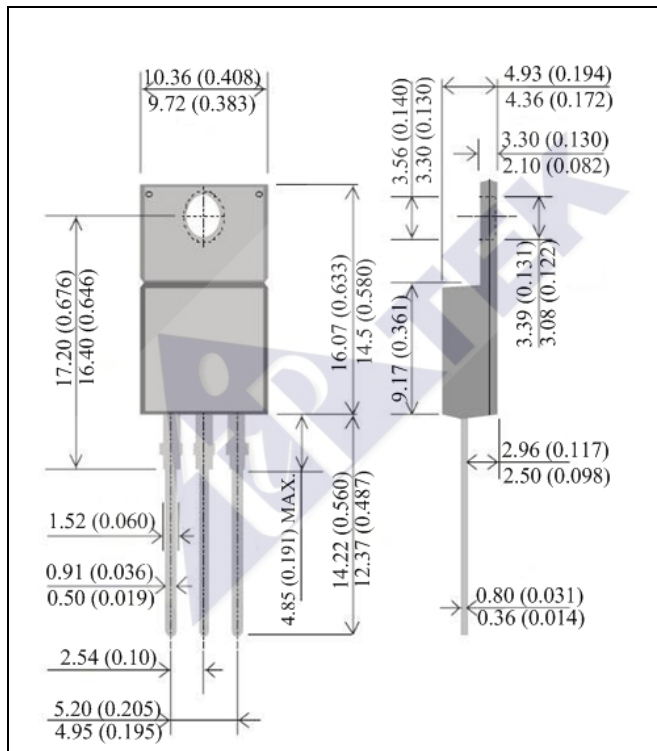


### 30A DUAL SCHOTTKY BARRIER RECTIFIERS



CASE : ITO-220AB

DIMENSIONS IN MILLIMETERS AND (INCHES)

#### FEATURES

- EXCELLENT/HIGH JUNCTION TEMPERATURE CAPABILITY.
- GOOD TRADE-OFF BETWEEN LEAKAGE CURRENT AND FORWARD VOLTAGE DROP.
- LOW POWER LOSS ,HIGH EFFICIENCY.
- EXCELLENT/HIGH CURRENT CAPABILITY.
- EXCELLENT/HIGH SURGE CAPACITY.
- ESD PERFORMANCE: >400V MACHINE MODEL.

#### MECHANICAL DATA

- CASE: MOLDED PLASTIC BLACK BODY, ITO-220AB
- EPOXY: UL 94V-O RATE FLAME RETARDANT
- LEAD: MIL-STD-750 METHOD 2026GUARANTEED
- MOUNTING POSITION: ANY
- WEIGHT: 0.08 OUNCE, 2.24 GRAMS
- Pb Free: MBR30100FCT
- Halogen Free: MBR30100FCT-H

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

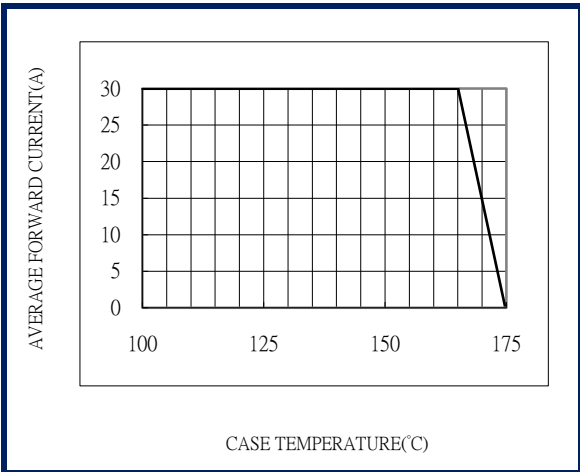
##### RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	MBR30100FCT	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	100	V
MAXIMUM RMS VOLTAGE	$V_{RMS}$	70	V
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT PER LEG ( SEE FIG.1 )	$I_O$	30	A
PEAK FORWARD SURGE CURRENT 8.3ms SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	250	A
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE AT 25°C PER LEG	$R_{\theta JC}$	7.0	°C/W
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 65 TO + 175	°C
OPERATING TEMPERATURE RANGE	$T_J$	- 65 TO + 175	°C

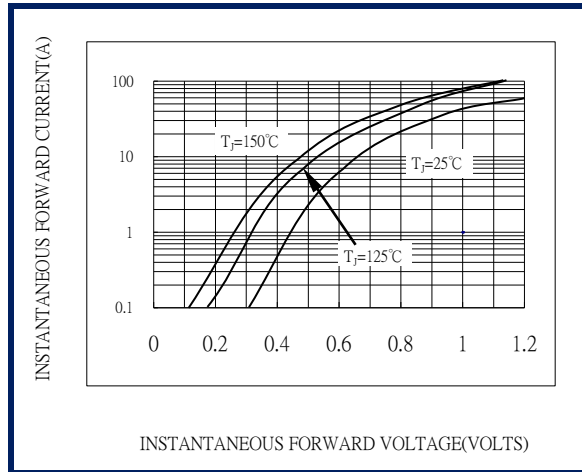
##### ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	MBR30100FCT	UNITS
MAXIMUM FORWARD VOLTAGE AT 15A PER LEG	$V_F$	0.85	V
MAXIMUM DC REVERSE CURRENT PER LEG (NOTE 1)	25°C	$I_R$	0.1
	100°C	$I_R$	3

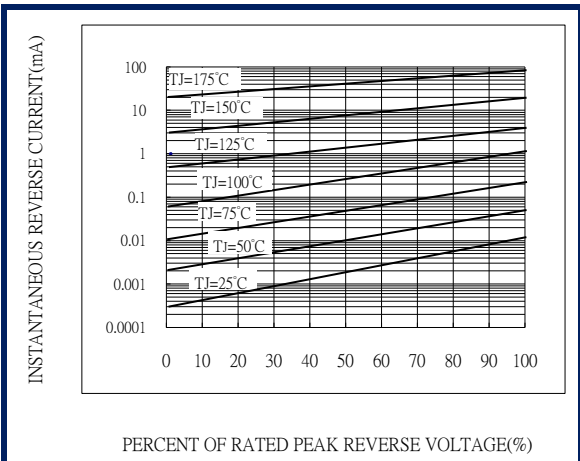
NOTES : 1. PULSE TEST: 300µs PULSE WIDTH, 1% DUTY CYCLE



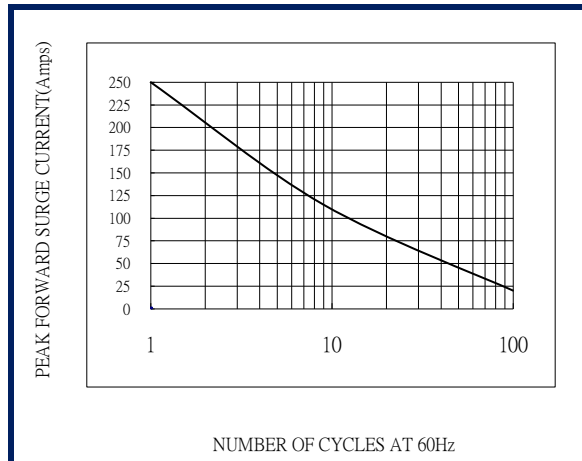
**Fig.1-FORWARD CURRENT DERATING CURVE**



**Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**Fig.3-TYPICAL REVERSE CHARACTERISTICS**



**Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT**