

PRIMARY CHARACTERISTICS

I_{FSM}	150 A
I_F	10A X 2
V_{RRM}	40~200V
V_F	0.65V,0.75V,0.85V,0.92V
T_J Max	150°C,175°C

FEATURES

- EXTREMELY LOW V_F
- LOW STORED CHARGE,
MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY
MOLDING COMPOUND

ITO-220- PACKAGE

• Body Marking Example

X:Please see specifications

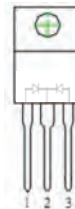


(Samples are usually not indicated Date Code)

V:Product Lines

Y:AD late code, ex : 3-2013,4-2014

M:Month, ex : 1-1,2-2,...10-O,11-N,12-D


MECHANICAL DATA

- CASE: TRANSFER MOLDED
- LEADS: SOLDERABLE PER MIL-STD-202,
METHOD 208
- POLARITY: AS MARKED

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, derate current by 20%

RATINGS	SYMBOL	MBR 2040FCT	MBR 2045FCT	MBR 2060FCT	MBR 20100FCT	MBR 20150FCT	MBR 202000FCT	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V _{RRM}	40	45	60	100	150	200	V
MAXIMUM RMS VOLTAGE	V _{RMS}	28	31.5	42	70	105	140	V
MAXIMUM DC BLOCKING VOLTAGE	V _{DC}	40	45	60	100	150	200	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1 PER LEG	I _O	20 10						A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I _{FSM}	150						A
STORAGE TEMPERATURE RANGE	T _{STG}	- 65 TO + 175						°C
OPERATING JUNCTION TEMPERATURE RANGE	T _J	- 55 TO + 150				- 55 TO + 175		°C
ELECTRICAL CHARACTERISTICS								
CHARACTERISTICS	SYMBOL	MBR 2040FCT	MBR 2045FCT	MBR 2060FCT	MBR 20100FCT	MBR 20150FCT	MBR 202000FCT	UNITS
MAXIMUM FORWARD VOLTAGE AT I _F = 10A T _J =25°C 								

NOTES : 1. PULSE TEST: 300μS PULSE WIDTH, <2% DUTY CYCLE.

FIG. 1 - FORWARD DERATING CURVE

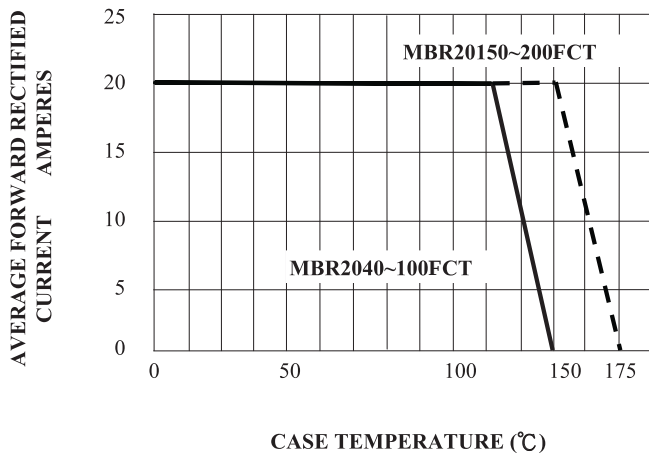


FIG. 2 - PEAK FORWARD SURGE CURRENT

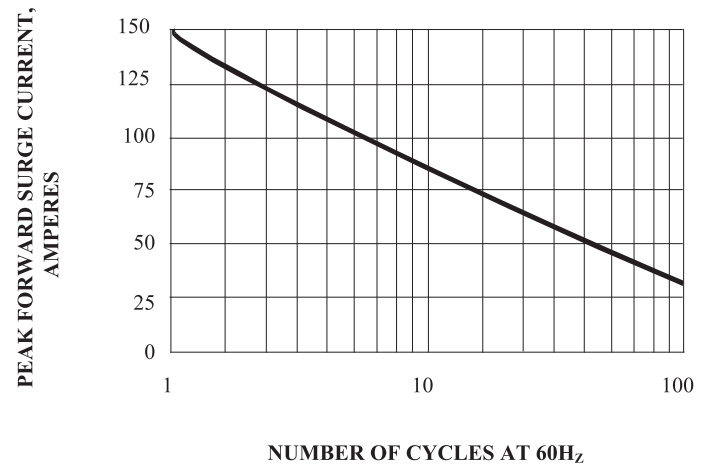


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

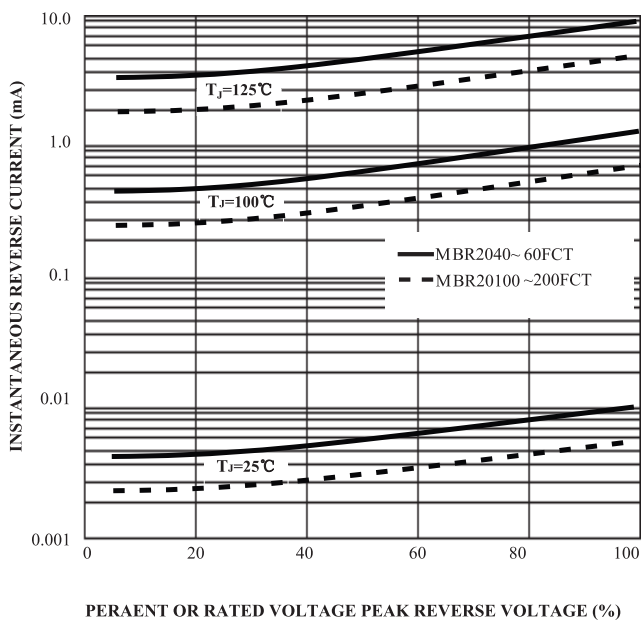
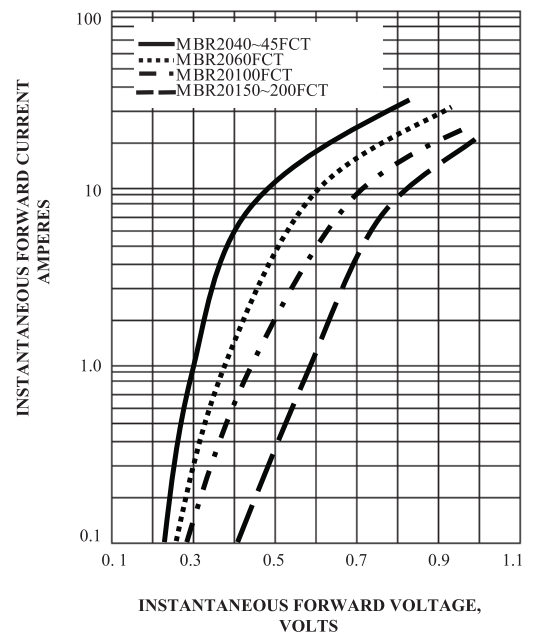


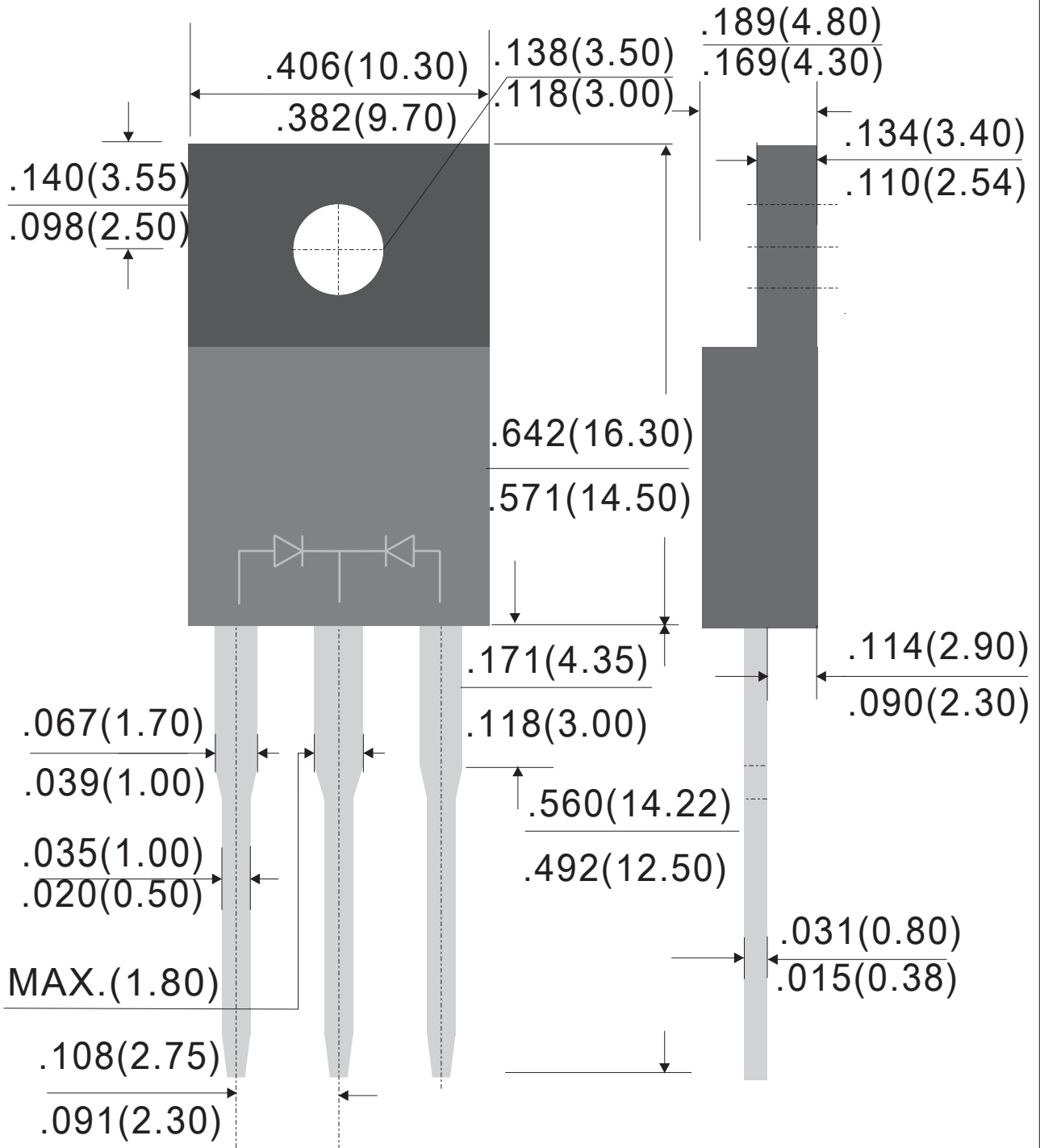
FIG. 4 - TYPICAL FORWARD CHARACTERISTIC PER LEG





Outline Drawing

ITO-220



Dimensions in inches and (millimeters)

Rev.J

Ordering Information:

Device PN	Packing
Part Number - ⁽¹⁾ G ⁽²⁾ -WS	Tube Packing:50pcs/Tube; 2000pcs/Box

Note: 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G"

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