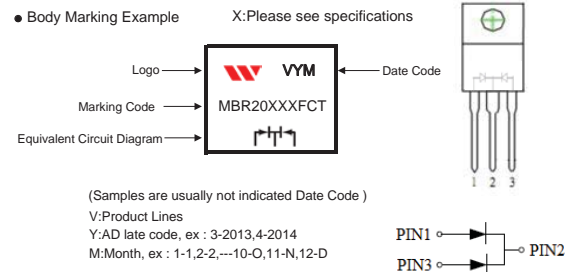


20A SW cth_mBUfjYf RYWjZYfg- 40V~200V

PRIMARY CHARACTERISTICS	
V_{RRM}	40V~200V
$I_{F(AV)}$	20A
V_F	0.65V,0.8V,0.85V,0.92V
$T_{J,Max}$	150°C

ITO-220 PACKAGE

FEATURES

- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic, ITO-220
- Polarity : Shown above
- Terminals : Plated terminals, solderable per MIL-STD-750, Method 2026
- Epoxy : UL94-V0 rated flame retardant

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	MBR 20400CT	MBR 20450CT	MBR 20500CT	MBR 20600CT	MBR 20800CT	MBR 20900CT	MBR 201000CT	MBR 201500CT	MBR 202000CT	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)	$I_{F(AV)}$	20									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150									A
Maximum Forward Voltage at 10A, per leg	V_F	0.65	0.8		0.85			0.92			V
Maximum DC Reverse Current $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_J=125^\circ\text{C}$	I_R	0.05 20			0.02 20						mA
Typical Thermal Resistance	$R_{\theta JC}$	2									°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-50 to + 150									°C
Junction Capacitance (Note)	C_J	700	500		400			300	250		pF

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc;

RATING AND CHARACTERISTIC CURVES

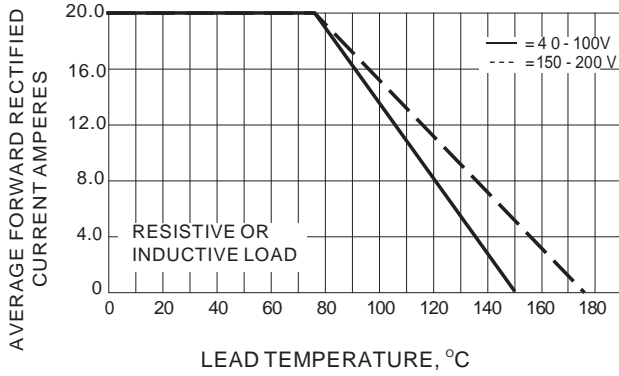


Fig.1- FORWARD CURRENT DERATING CURVE

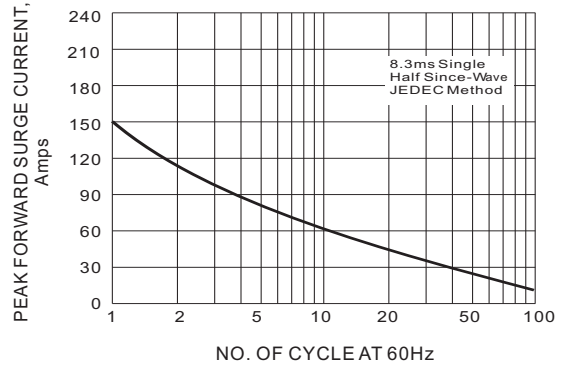


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

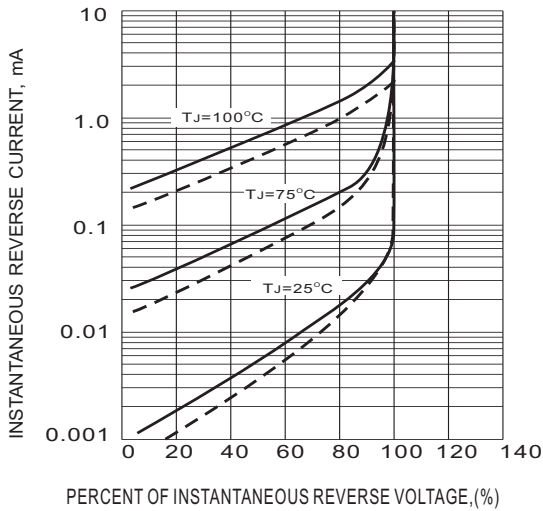


Fig.3- TYPICAL REVERSE CHARACTERISTICS

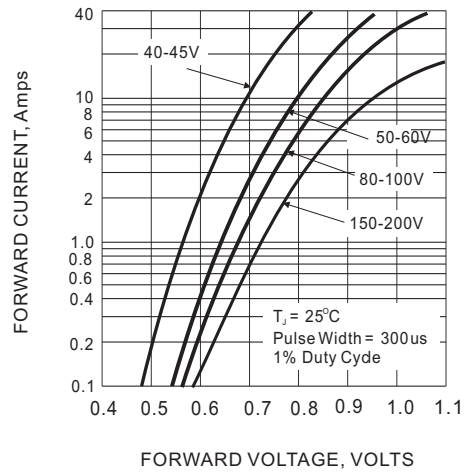
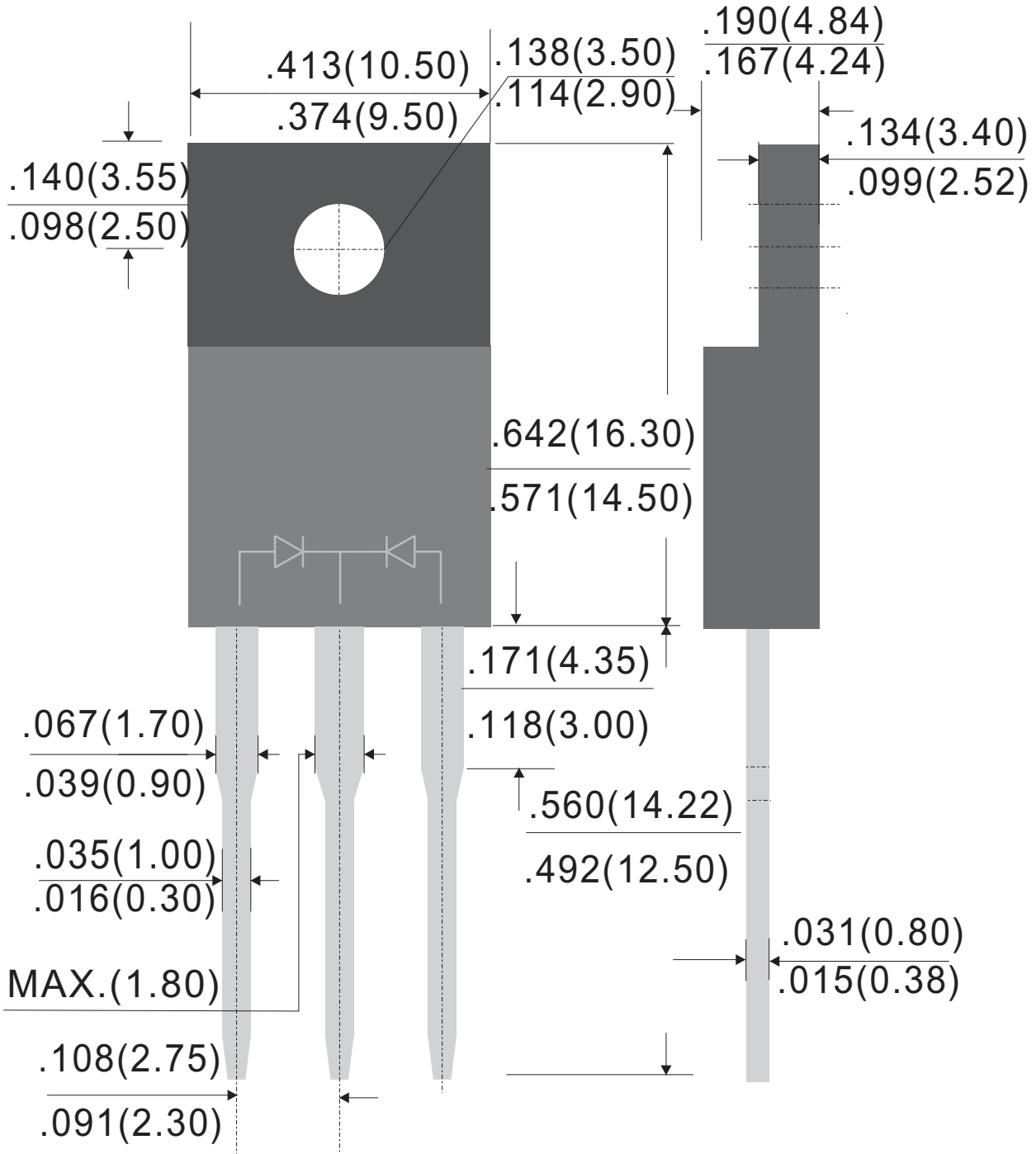


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Outline Drawing

ITO-220(D)



Dimensions in inches and (millimeters)

Rev.I

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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