

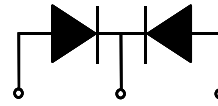
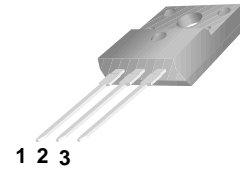


Technologies Int'l

MBRF20150CT

Features

- Low forward voltage drop
- High frequency properties and switching speed
- Guard ring for over-voltage protection



1. Anode 2. Cathode 3. Anode

TO-220F

Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	150	V
V_R	Maximum DC Reverse Voltage	150	V
$I_{F(AV)}$	Maximum Average Rectified Current @ $T_C = 120^\circ\text{C}$	20	A
I_{FSM}	Maximum Forward Surge Current (per diode) 60Hz Single Half-Sine Wave	150	A
T_J, T_{STG}	Operating Junction and Storage Temperature	-40 to +150	$^\circ\text{C}$

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction to Case (per diode)	1.5	$^\circ\text{C}/\text{W}$

Electrical Characteristics (per diode)

Symbol	Parameter	Value	Units
V_{FM}^*	Maximum Instantaneous Forward Voltage	$T_C = 25^\circ\text{C}$	V
		$I_F = 10\text{A}$	
		$T_C = 125^\circ\text{C}$	
		$I_F = 10\text{A}$	
		$T_C = 25^\circ\text{C}$	
I_{RM}^*	Maximum Instantaneous Reverse Current @ rated V_R	$T_C = 25^\circ\text{C}$	mA
		$T_C = 125^\circ\text{C}$	
		$I_F = 20\text{A}$	
		$I_F = 20\text{A}$	

* Pulse Test: Pulse Width=300 μs , Duty Cycle=2%

Typical Characteristics

Figure 1. Forward Current Characteristics

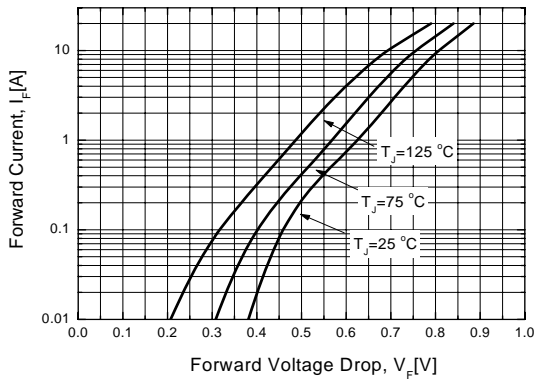


Figure 2. Reverse Leakage Current

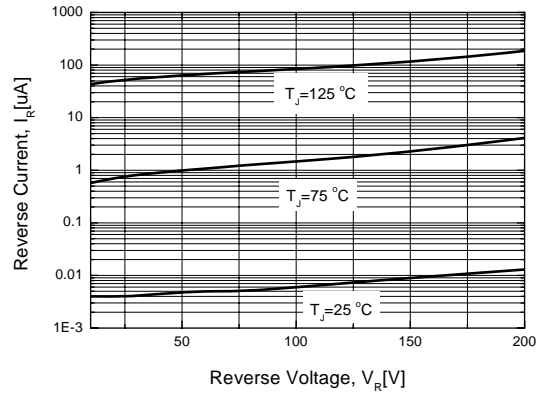


Figure 3. Junction Capacitance

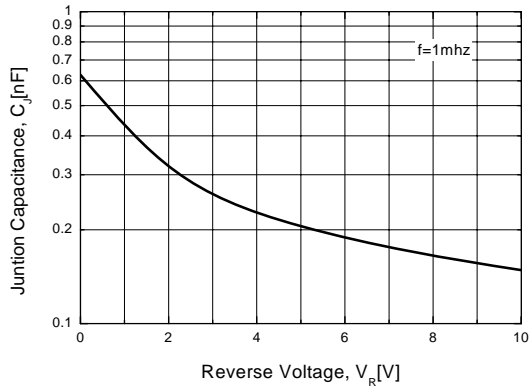
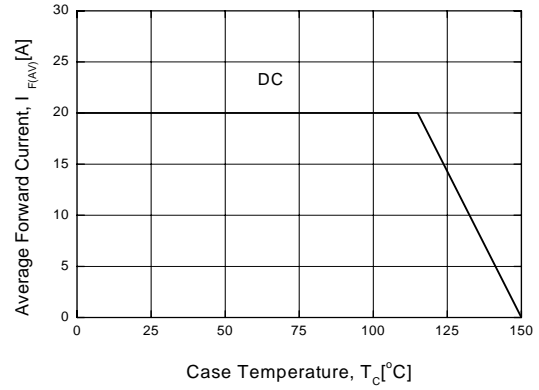
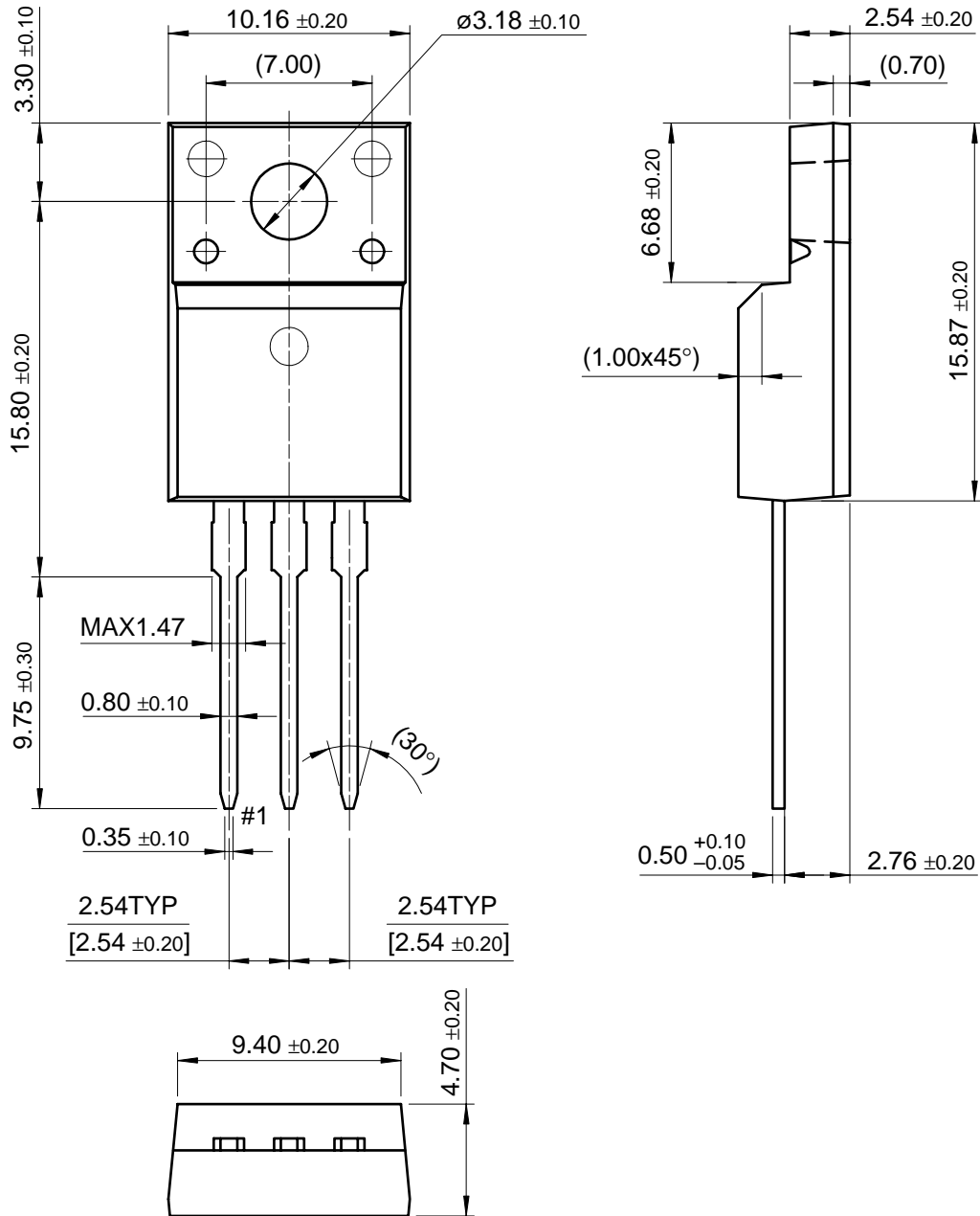


Figure 4. Power Derating



Package Dimension

TO-220F



Dimensions in Millimeters