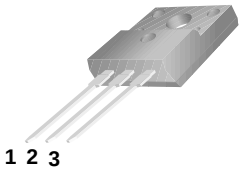
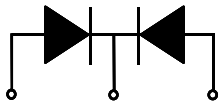
Wisdom Technologies Int'l

MMRF10150CT





1. Anode 2.Cathode 3. Anode

TO-220F

Features

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

Absolute Maximum Ratings (per diode) T_C=25ºC 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 = 105°C	10	A
I_{FSM}	Maximum Forward Surge Current (per diode) 60Hz Single Half-Sine Wave	120	A
T_J, T_{STG}	Operating Junction and Storage Temperature	-65 to +150	°C

Electrical Characteristics (per diode) T_C=25 °C unless otherwise noted

Symbol	Parameter		Min.	Typ.	Max.	Units
V_{FM} *	Maximum Instantaneous Forward Voltage					
	I_F = 5A	T_C = 25 °C	-	-	0.92	V
	I_F = 5A	T_C = 125 °C	-	-	0.83	
I_{RM} *	Maximum Instantaneous Reverse Current (per diode) @ rated V_R					mA
		T_C = 25 °C	-	-	0.1	
		T_C = 100 °C	-	-	50	

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

Typical Characteristics

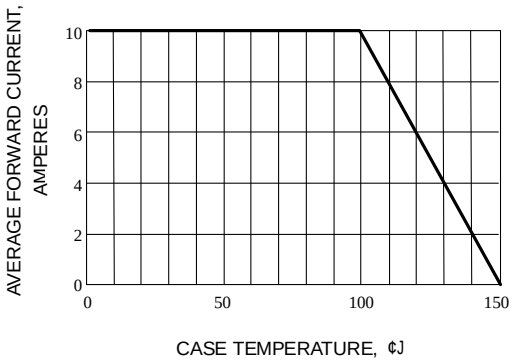


Fig. 1-FORWARD CURRENT DERATING CURVE

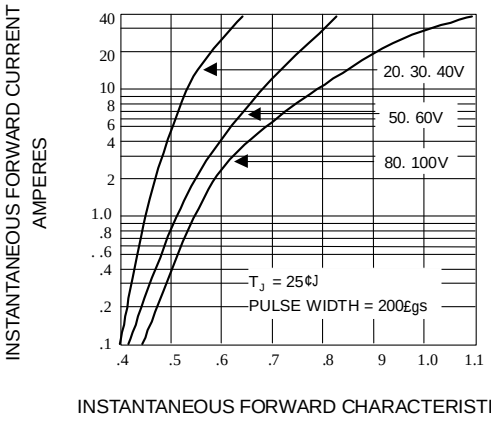


Fig. 2-TYPICAL INSTNATANEOUS FORWARD CHARACTERISTIC

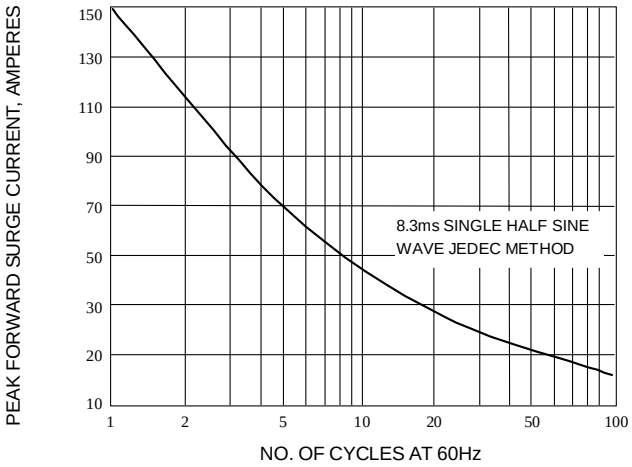
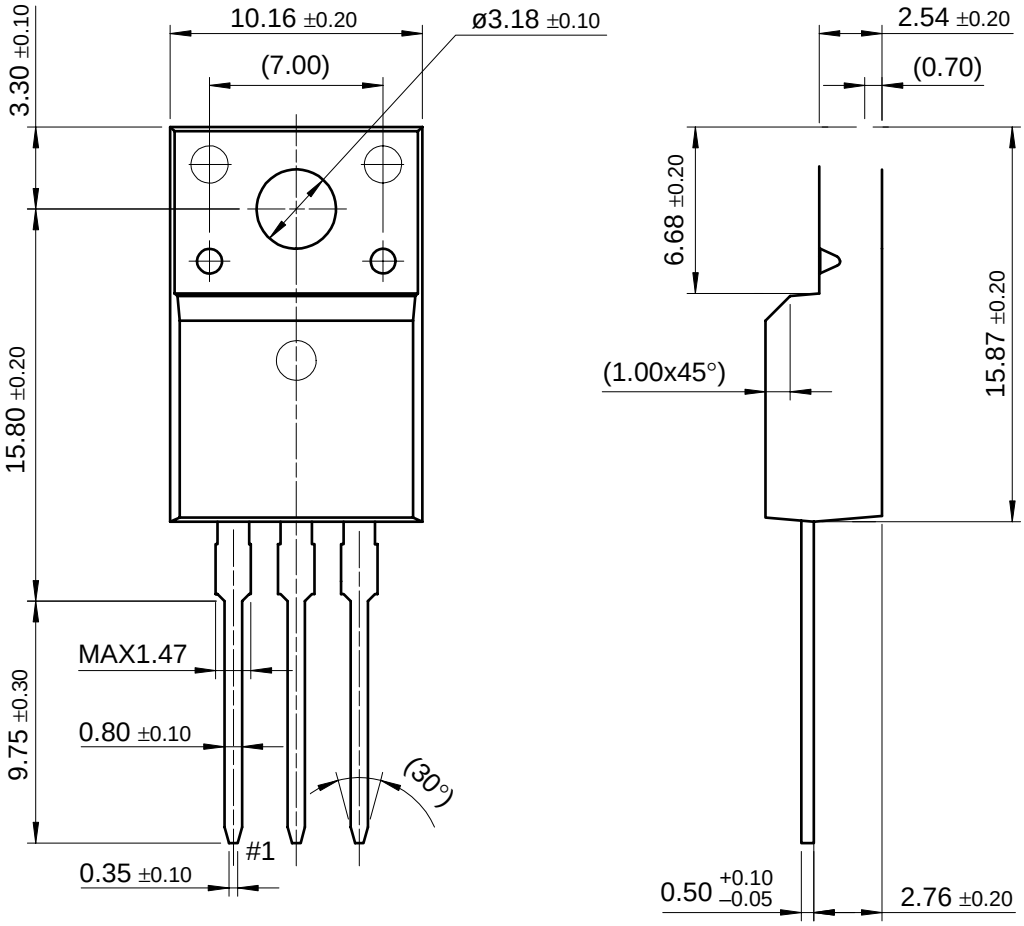


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

Package Dimension

TO-220F



Dimensions in Millimeters