



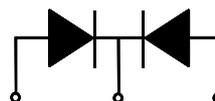
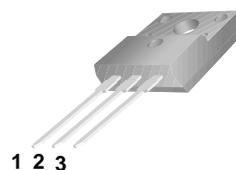
奧德利[®]
AUDLEY

MBRF1040CT - MBRF10200CT

Features

- Low power loss, high efficiency.
High surge capacity.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- Metal silicon junction, majority carrier conduction.
- High current capacity, low forward voltage drop.
- Guard ring for over voltage protection.

TO-220F



1. Anode 2. Cathode 3. Anode

Absolute Maximum Ratings*

T = 25°C unless otherwise noted

PARAMETER	SYMBOL	F1040CT	F1045CT	F1050CT	F1060CT	F1080CT	F1090CT	F10100CT	F10150CT	F10200CT	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	$I_{F(AV)}$	10									A
Peak Forward Surge Current : 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150									A
Maximum Forward Voltage at 5A per leg	V_F	0.7		0.75		0.85			0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$	I_R					0.1					mA
						20					
Typical Thermal Resistance	$R_{\theta JC}$					1.4					°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150				-65 to +175					°C

Typical Characteristics

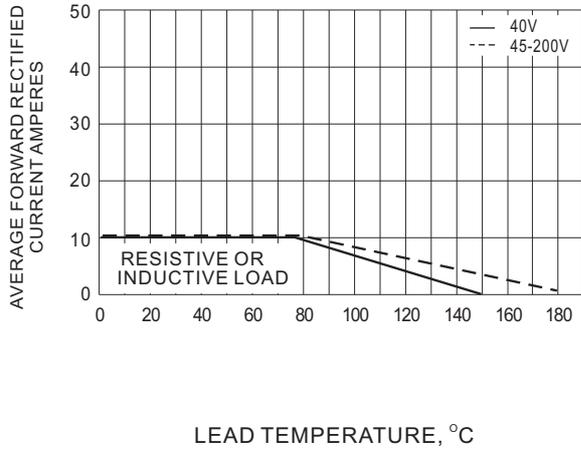


Fig.1- FORWARD CURRENT DERATING CURVE

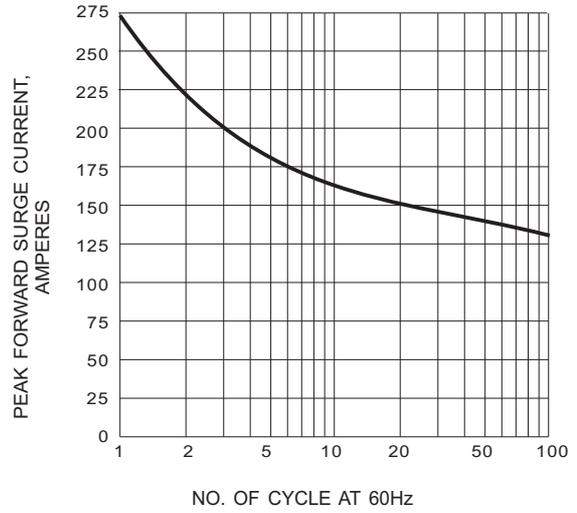


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

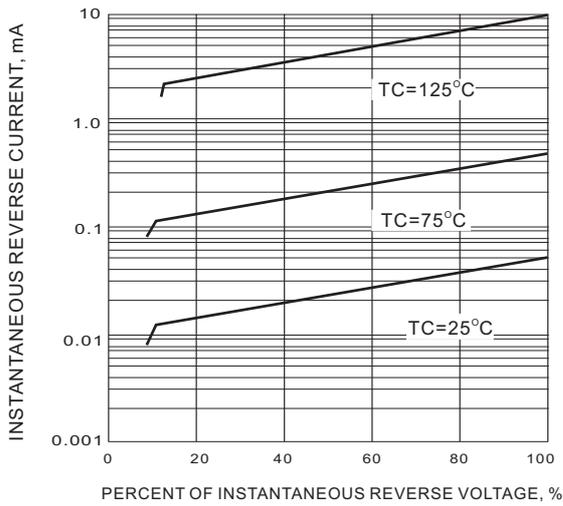


Fig.3- TYPICAL REVERSE CHARACTERISTIC

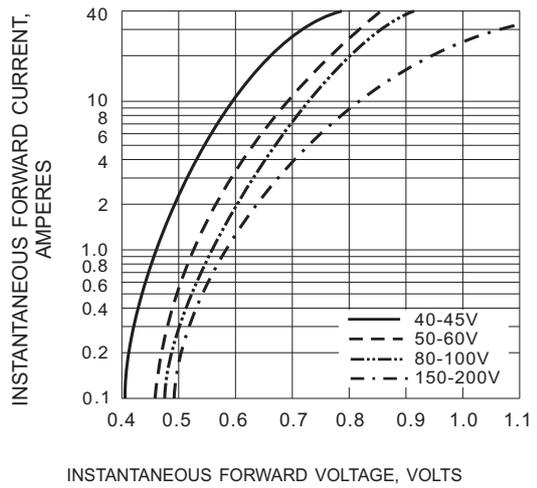
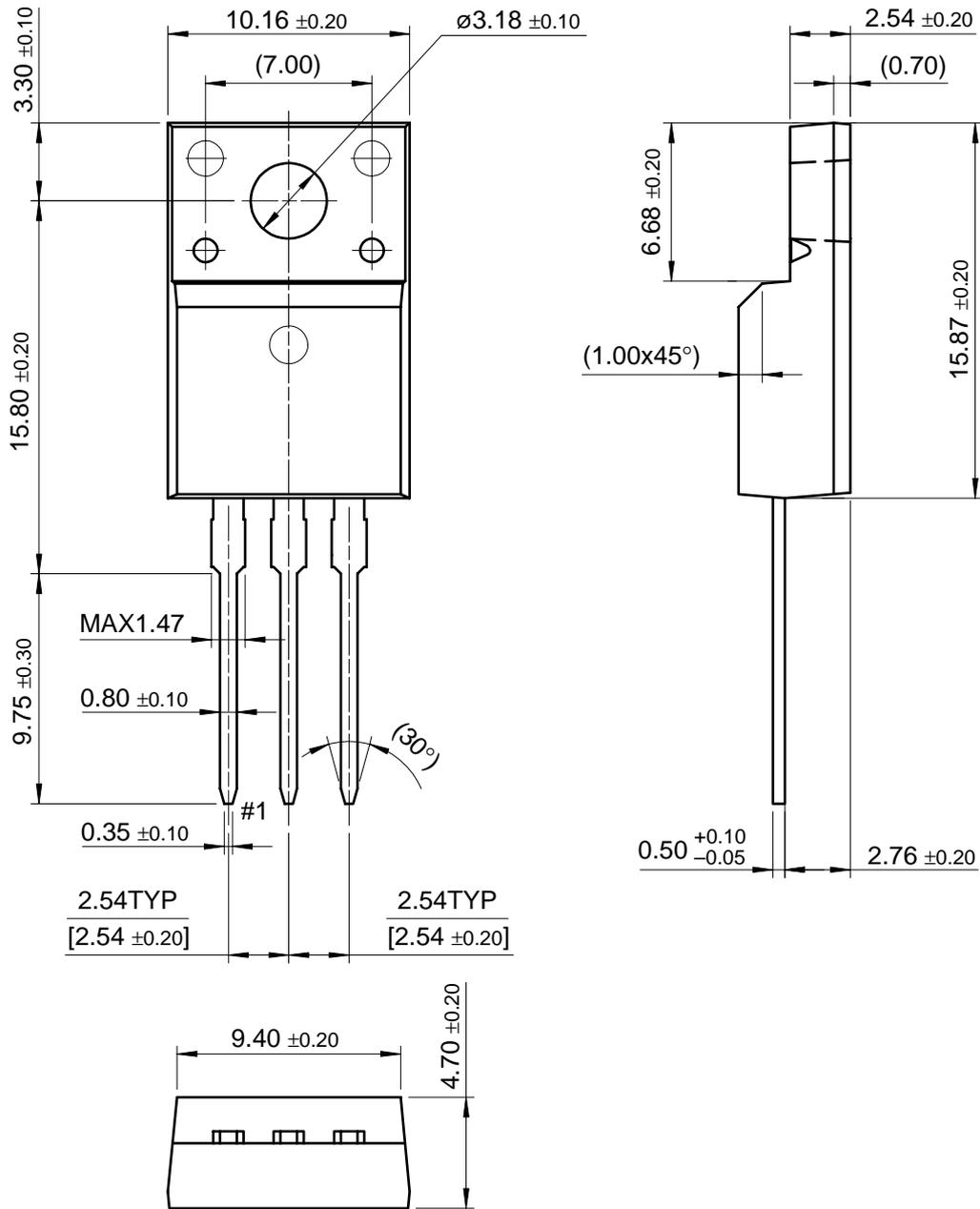


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

Package Dimension

TO-220F



Dimensions in Millimeters