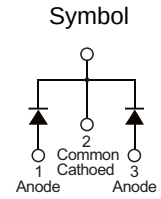


■ PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	80V
VF(Typ@IF=10A)	0.54V
IR(@VR=100V)	0.05mA
ID	20A

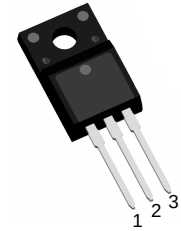


■ MECHANICAL CHARACTERISTICS

- * Case: epoxy,molded
- * Finish:all external surfaces corrosion resistant and terminal
- * Leads are readily solderable
- * Leads temperature for soldering purposes:
260°C Max for 10 seconds

■ FEATURES

- * Low forward voltage
- * Low power loss/high efficiency
- * Low stored charge majority carrier conduction
- * Pb free package are available



TO-220F

■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-free	Halogen		
N/A	MBR2080UF	TO-220F	50pieces/Tube

■ MAXIMUM RATINGS (Each diode leg)

Parameter		Symbol	Value	Unit
Peak repetitive reverse voltage		V_{RRM}	80	V
Average rectified output current	Total	I_O	20	A
	Per leg		10	A
Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on reate load		I_{FSM}	150	A
Operating and storage temperature range		T_J, T_{STG}	-55 to + 175	°C

■ ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Peak repetitive reverse voltage	B_V	$I_C=0.5\text{mA}, T_J=25^{\circ}\text{C}$	80	-	-	V
Forward voltage drop	V_F	$I_F=10\text{A}, T_J=25^{\circ}\text{C}$	-	0.54	0.6	V
Leakage current	I_R	$V_R=80\text{V}, T_J=25^{\circ}\text{C}$	-	-	0.05	mA
		$V_R=80\text{V}, T_J=125^{\circ}\text{C}$	-	-	20	
Typical thermal resistance per diode	$R_{\theta J-C}$		-	4	-	°C/W

■ TYPICAL CHARACTERISTICS

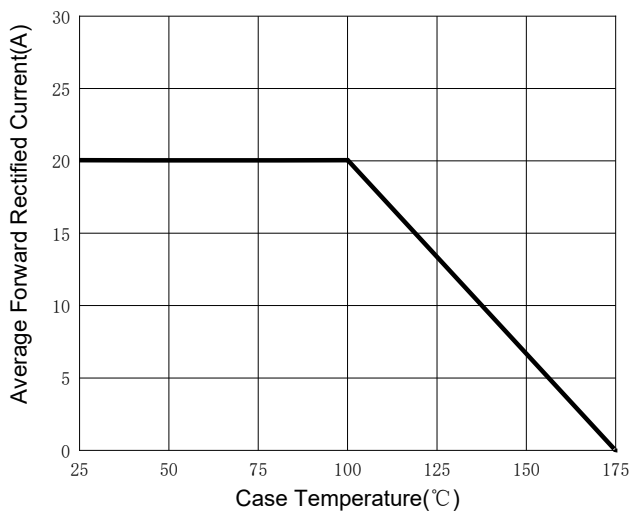


Fig.1: Forward Current Derating Curve

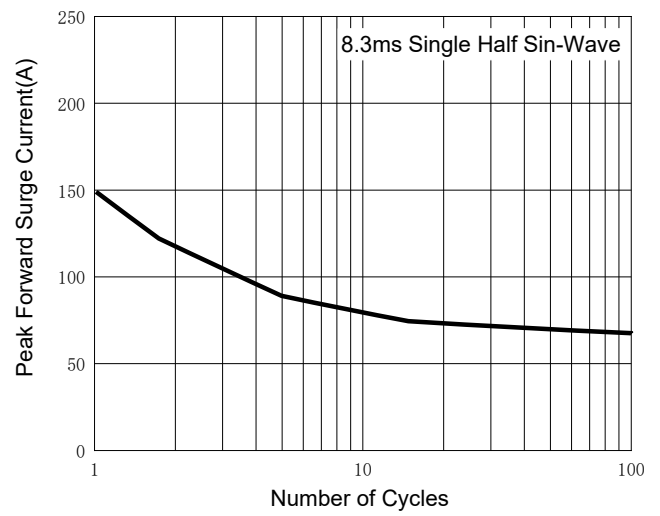


Fig.2: Forward Surge Current Capability (Per Diode)

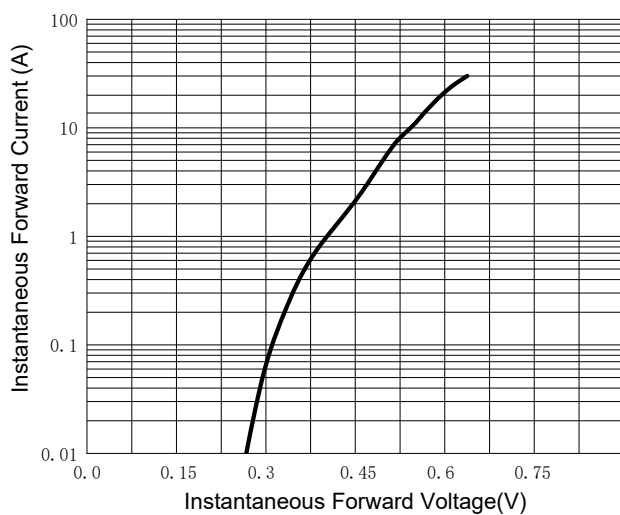


Fig.3: Typical Instantaneous Forward Characteristics (Per Diode)

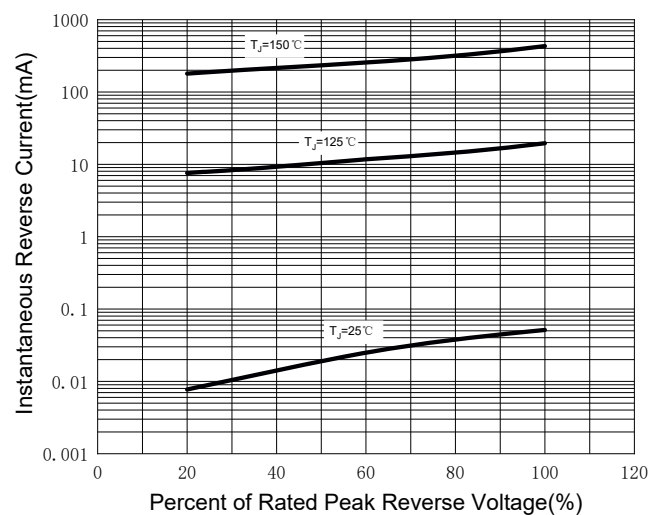


Fig.4: Typical Reverse Leakage Characteristics (Per Diode)

■ TO-220F PACKAGE OUTLINE DIMENSIONS

