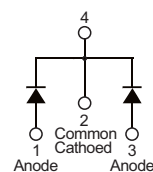


■ PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	100V
VF(@IF=15A)	0.85V
IR(@VR=100V)	50uA
ID	30A

Symbol



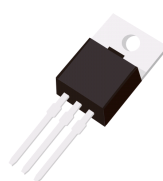
■ MECHANICAL CHARACTERISTICS

- * Case: Epoxy, Molded
- * Finish: All External Surfaces Corrosion Resistant and Terminal
- * Leads are Readily Solderable
- * Lead Temperature for Soldering Purposes:
260 °C Max. for 10 Seconds

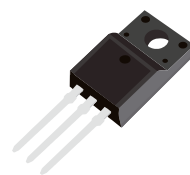
■ FEATURES

- * Guard Ring for Stress Protection
- * Low Forward Voltage
- * Low Power Loss/High Efficiency
- * High Surge Capacity
- * Low Stored Charge Majority Carrier Conduction
- * Pb Free Packages are Available*

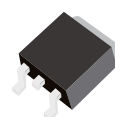
(per Leg)



TO-220



TO-220F



TO-263

■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-Free	Halogen		
N/A	MBR30100F	TO-220F	50 pieces/Tube
N/A	MBR30100A	TO-220	50 pieces/Tube
N/A	MBR30100E	TO-263	800 pieces/reel

■ MAIMUM RATINGS(Each diode leg)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectified Output Current	(Total)	30	A
	(per Leg)	15	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Reate Load	I_{FSM}	300	A
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 175	°C

■ ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Test Conditions	Min	Typ.	Max	Unit
Peak Repetitive Reverse Voltage	B_V	$I_C=0.5mA, T_J=25^{\circ}C$	—	108	—	V
Forward Voltage Drop	V_F	$I_F=15A, T_J=25^{\circ}C$	—	0.82	0.85	V
Leakage Current	I_R	$V_R=100V, T_J=25^{\circ}C$	—	—	0.05	mA
		$V_R=100V, T_J=125^{\circ}C$	—	—	6	

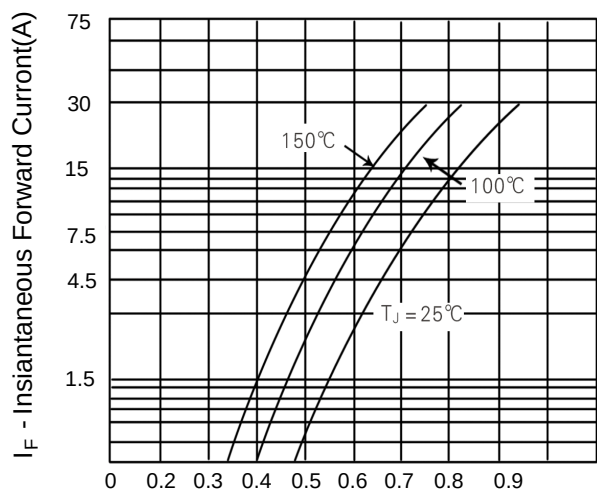


Figure 1. Typical Forward Voltage Per Diode

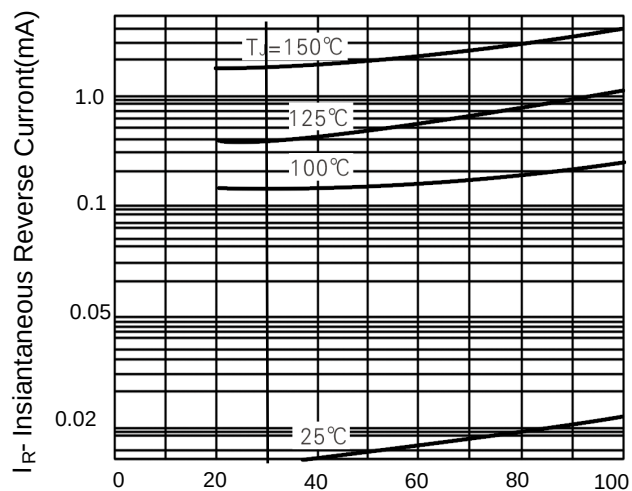


Figure 2. Typical Reverse Current Per Diode

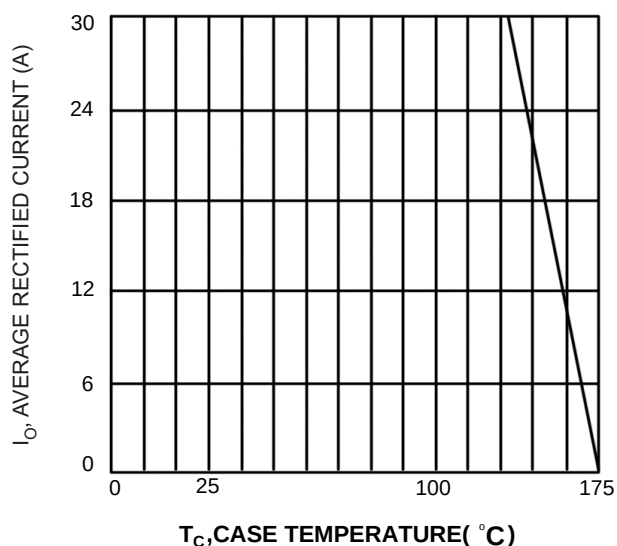


Fig.3 Forward Current Derating Curve

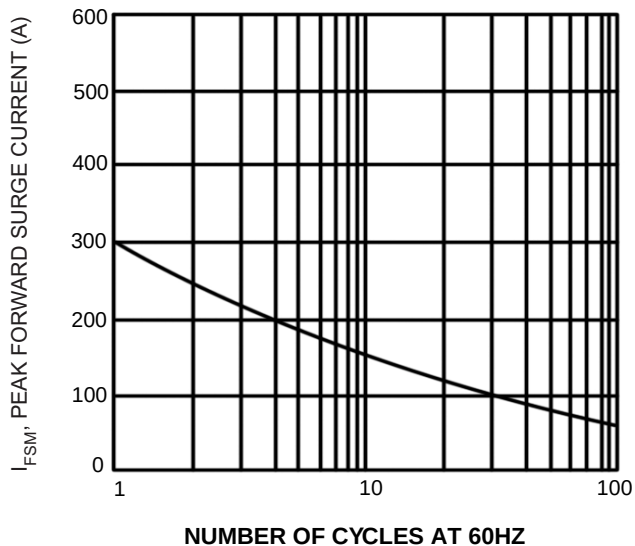
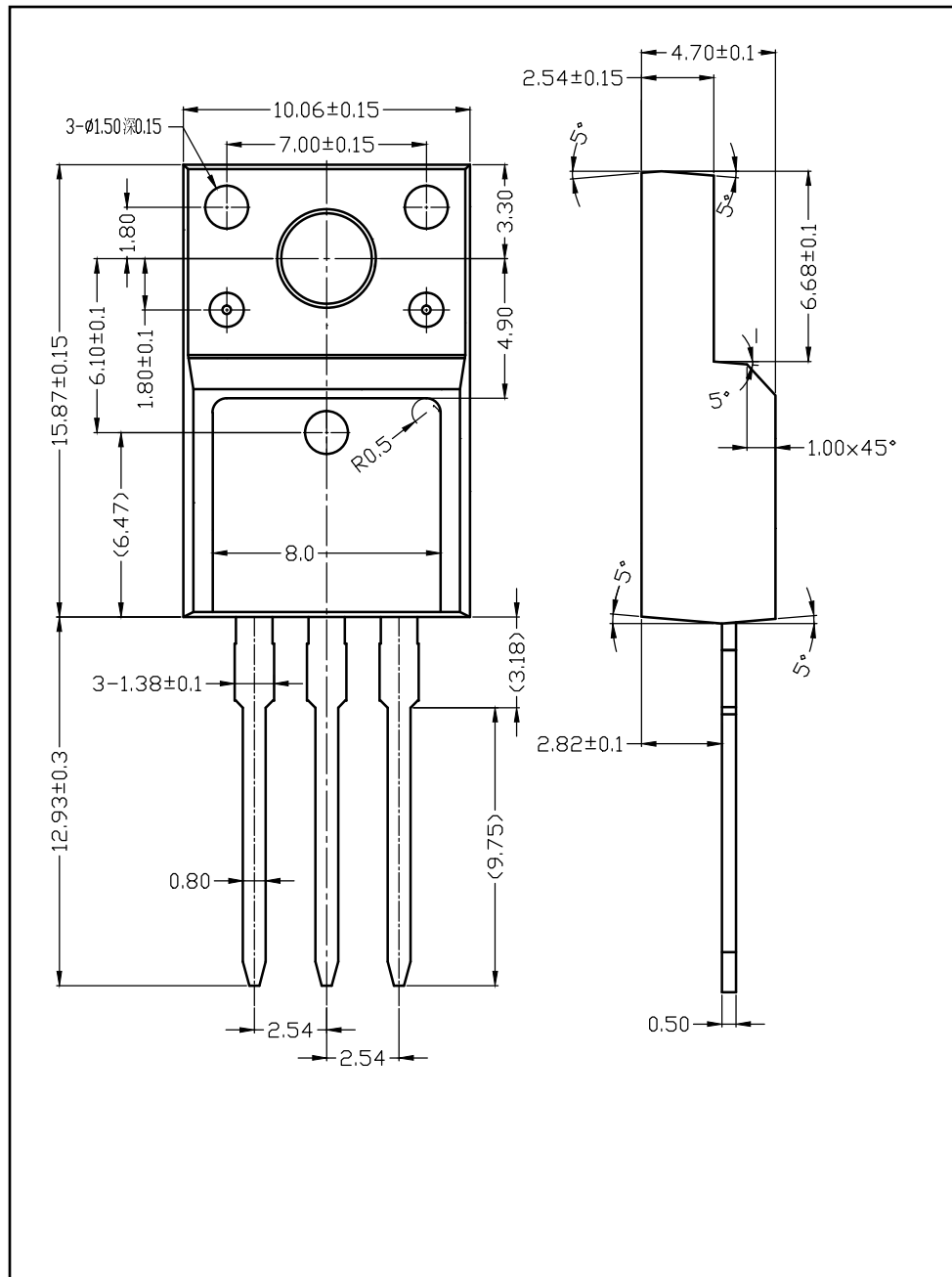
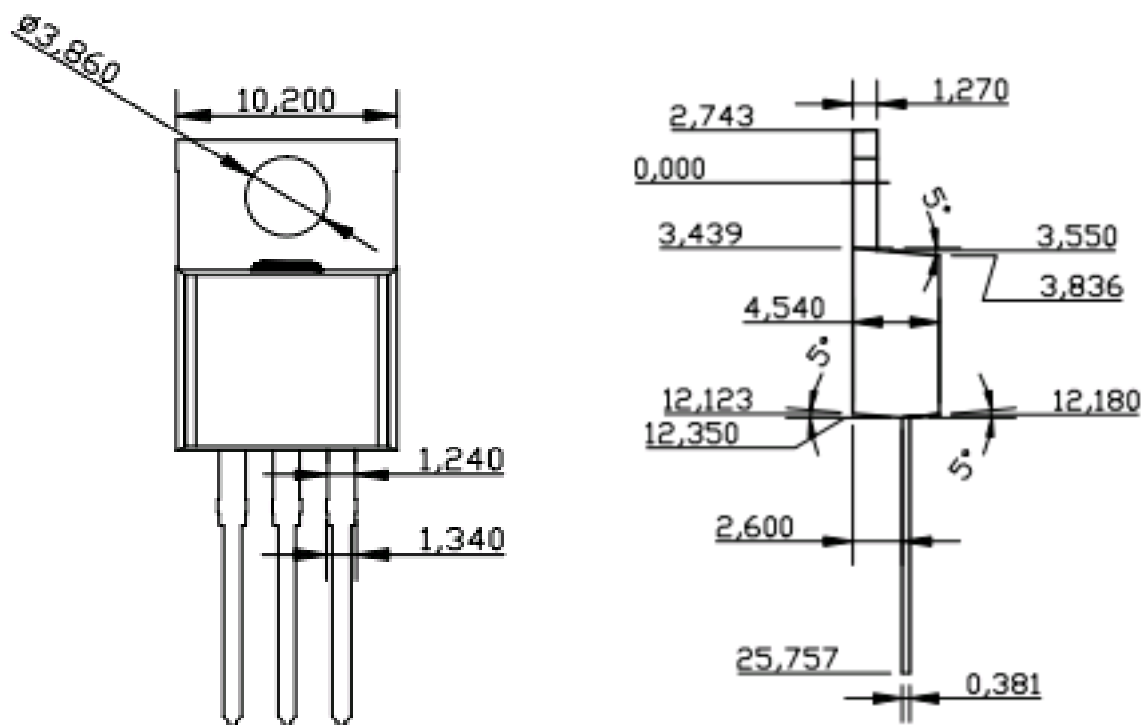


Fig.4 Max Non-Repetitive Surge Current

■ TO-220F-3L PACKAGE OUTLINE DIMENSIONS



■ TO-220-3L PACKAGE OUTLINE DIMENSIONS



■ TO-263-2L PACKAGE OUTLINE DIMENSIONS

