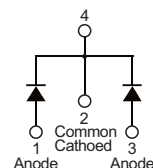


■ PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	200V
VF(@IF=5A)	0.88V
IR(@VR=200V)	20uA
ID	10A

Symbol

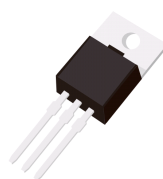


■ MECHANICAL CHARACTERISTICS

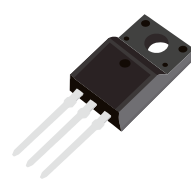
- * Case: Epoxy, Molded
- * Finish: All External Surfaces Corrosion Resistant and Terminal
- * Leads are Readily Solderable
- * Lead Temperature for Soldering Purposes:
260 °C Max. for 10 Seconds

■ FEATURES

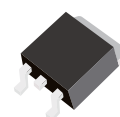
- * Guard Ring for Stress Protection
- * Low Forward Voltage
- * Low Power Loss/High Efficiency
- * High Surge Capacity
- * Low Stored Charge Majority Carrier Conduction
- * Pb Free Packages are Available*



TO-220



TO-220F



TO-263

■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-Free	Halogen		
N/A	MBR10200F	TO-220F	50 pieces/Tube
N/A	MBR10200A	TO-220	50 pieces/Tube
N/A	MBR10200E	TO-263	800 pieces/reel

■ MAIMUM RATINGS (Each Diode Leg)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Average Rectified Output Current	(Total)	10	A
	(per Leg)	5	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

Characteristic	Symbol	Test Conditions	Min	Typ.	Max	Unit
Peak Repetitive Reverse Voltage	B_V	$I_C=0.5mA$ $T_J=25^\circ C$	—	210	—	V
Forward Voltage Drop	V_F	$I_F=5A$, $T_J=25^\circ C$	—	0.84	0.88	V
Leakage Current	I_R	$V_R=200V$, $T_J=25^\circ C$	—	—	0.02	mA
		$V_R=200V$, $T_J=125^\circ C$	—	—	6	

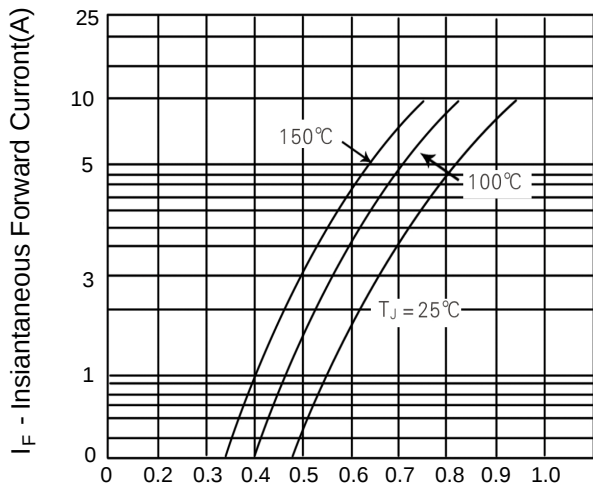


Figure 1. Typical Forward Voltage Per Diode

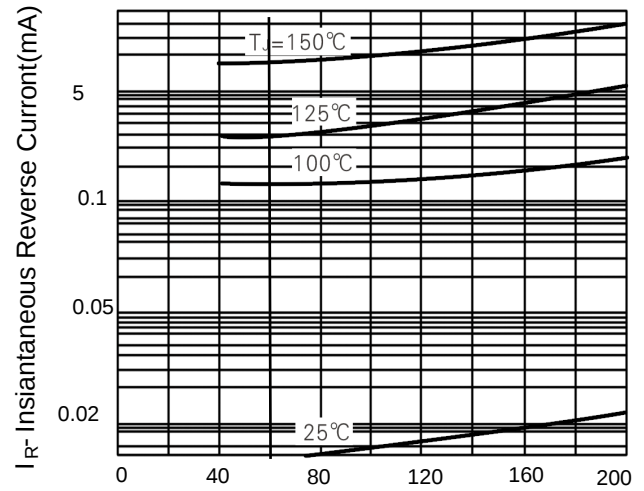


Figure 2. Typical Reverse Current Per Diode

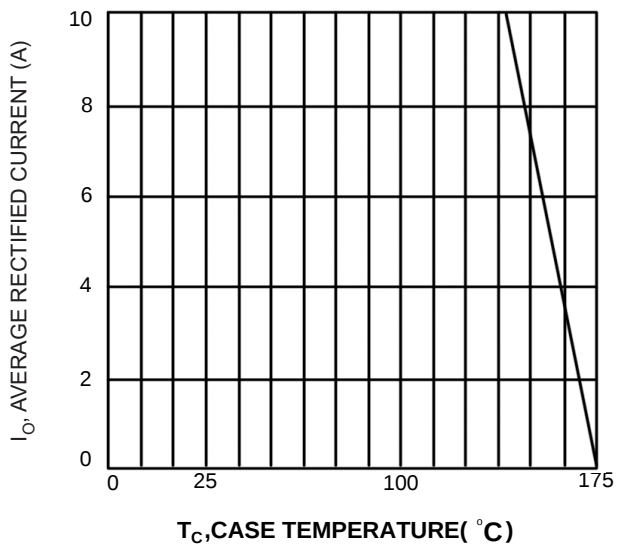


Fig.3 Forward Current Derating Curve

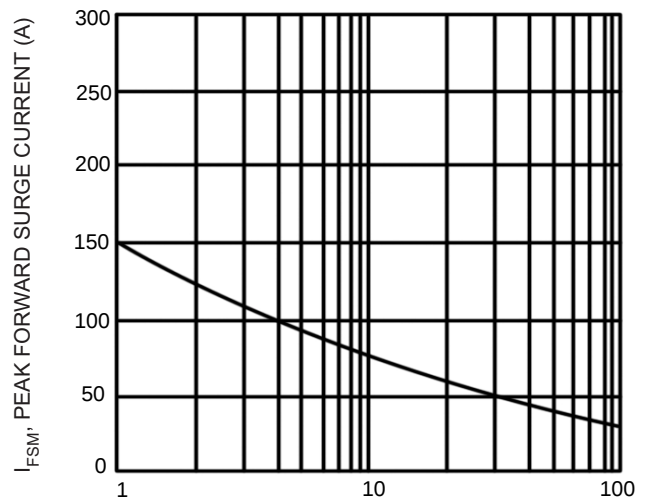
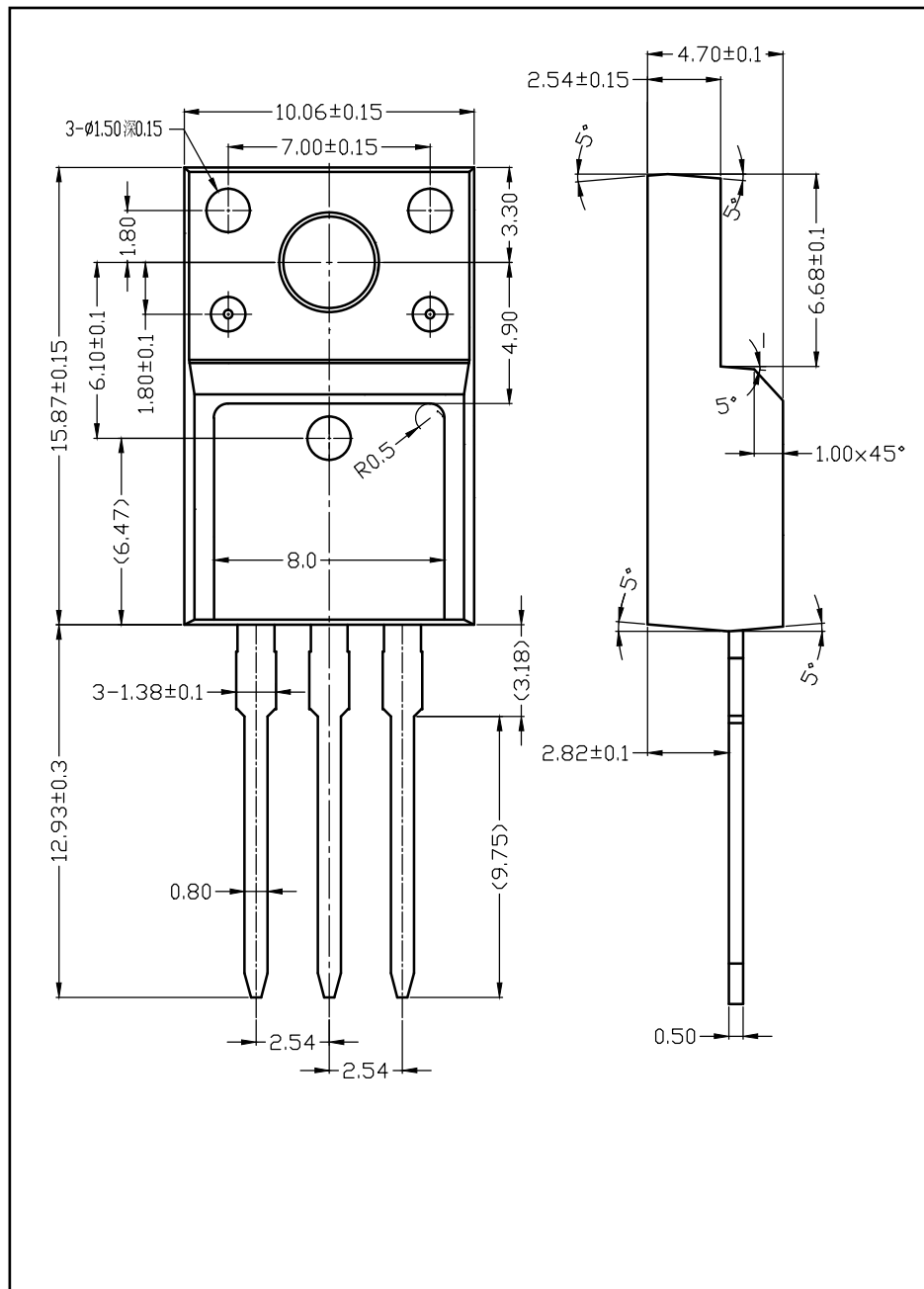


Fig.4 Max Non-Repetitive Surge Current

■ TO-220F-3L PACKAGE OUTLINE DIMENSIONS



Technical drawing of a mechanical component, showing front and side views with dimensions.

Front View (Left):

- Overall width: 10,200
- Top circular feature diameter: $\phi 3,860$
- Bottom section width: 1,240
- Bottom section height: 1,340

Side View (Right):

- Top flange width: 1,270
- Top flange thickness: 2,743
- Reference line: 0,000
- Internal feature width: 3,439
- Internal feature height: 3,550
- Internal feature width (bottom): 3,836
- Internal feature height (bottom): 4,540
- Internal feature width (bottom): 12,123
- Internal feature height (bottom): 12,350
- Internal feature width (bottom): 12,180
- Internal feature height (bottom): 2,600
- Internal feature width (bottom): 25,757
- Internal feature height (bottom): 0,381

■ TO-263-2L PACKAGE OUTLINE DIMENSIONS

