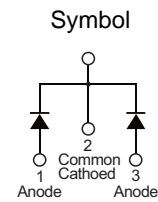


### PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	150V
VF(Typ@IF=15A)	0.88V
IR(@VR=150V)	50uA
ID	30A

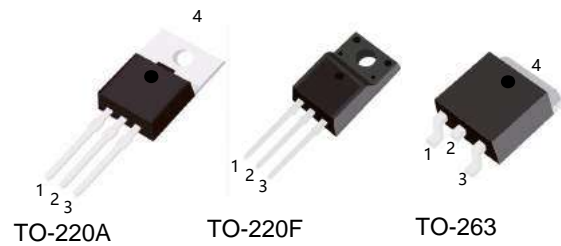


### MECHANICAL CHARACTERISTICS

- \* 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

- \* Guard ring for stress protection
- \* Low forward voltage
- \* Low power loss/high efficiency
- \* High surge capacity
- \* Low stored charge majority carrier conduction
- \* Pb free package are available



### ORDER INFORMATION

Order codes		Package	Packing
Halogen-free	Halogen		
N/A	MBR30150A	TO-220	50pieces/Tube
N/A	MBR30150F	TO-220F	50pieces/Tube
N/A	MBR30150E	TO-263	800pieces/Reel

### MAXIMUM RATINGS (Each diode leg)

Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V <sub>RRM</sub>	150	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 <sub>FSM</sub>	300	A
Operating and storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 175	°C

### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Peak repetitive reverse voltage	B <sub>V</sub>	I <sub>C</sub> =0.5mA, T <sub>J</sub> =25°C	150	-	-	V
Forward voltage drop	V <sub>F</sub>	I <sub>F</sub> =15A, T <sub>J</sub> =25°C	-	0.88	0.93	V
Leakage current	I <sub>R</sub>	V <sub>R</sub> =150V, T <sub>J</sub> =25°C	-	-	0.05	mA
		V <sub>R</sub> =150V, T <sub>J</sub> =125°C	-	-	6	

■ TYPICAL CHARACTERISTICS

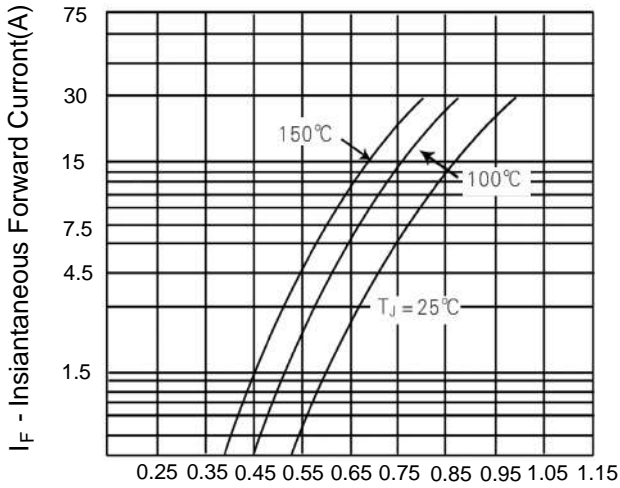


Figure 1. Typical Forward Voltage Per Diode

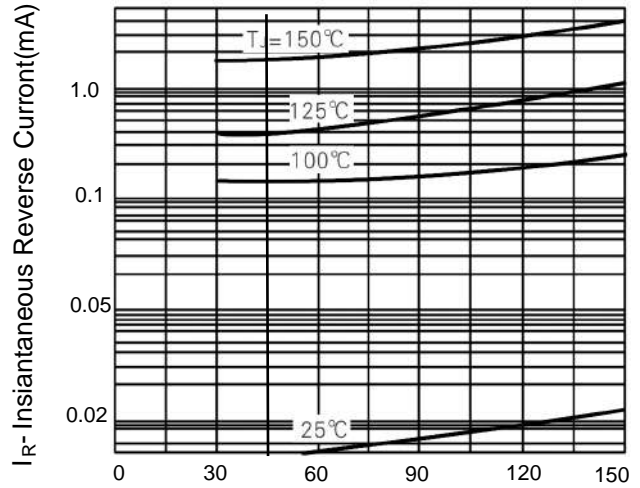


Figure 2. Typical Reverse Current Per Diode

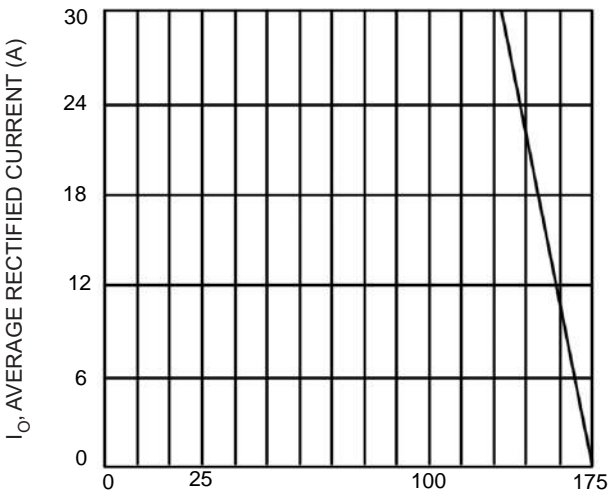


Fig.3 Forward Current Derating Curve

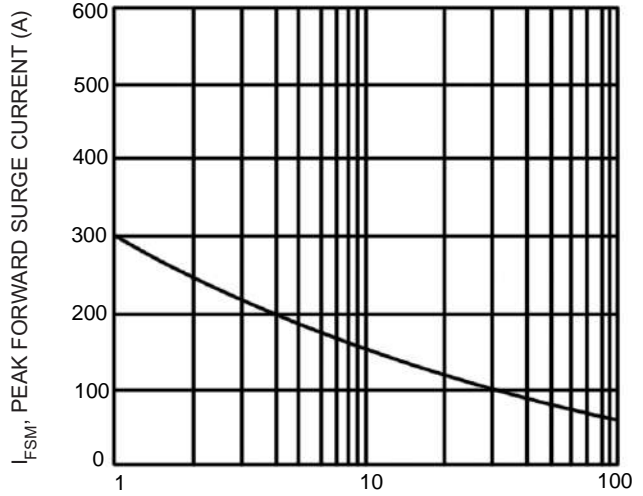
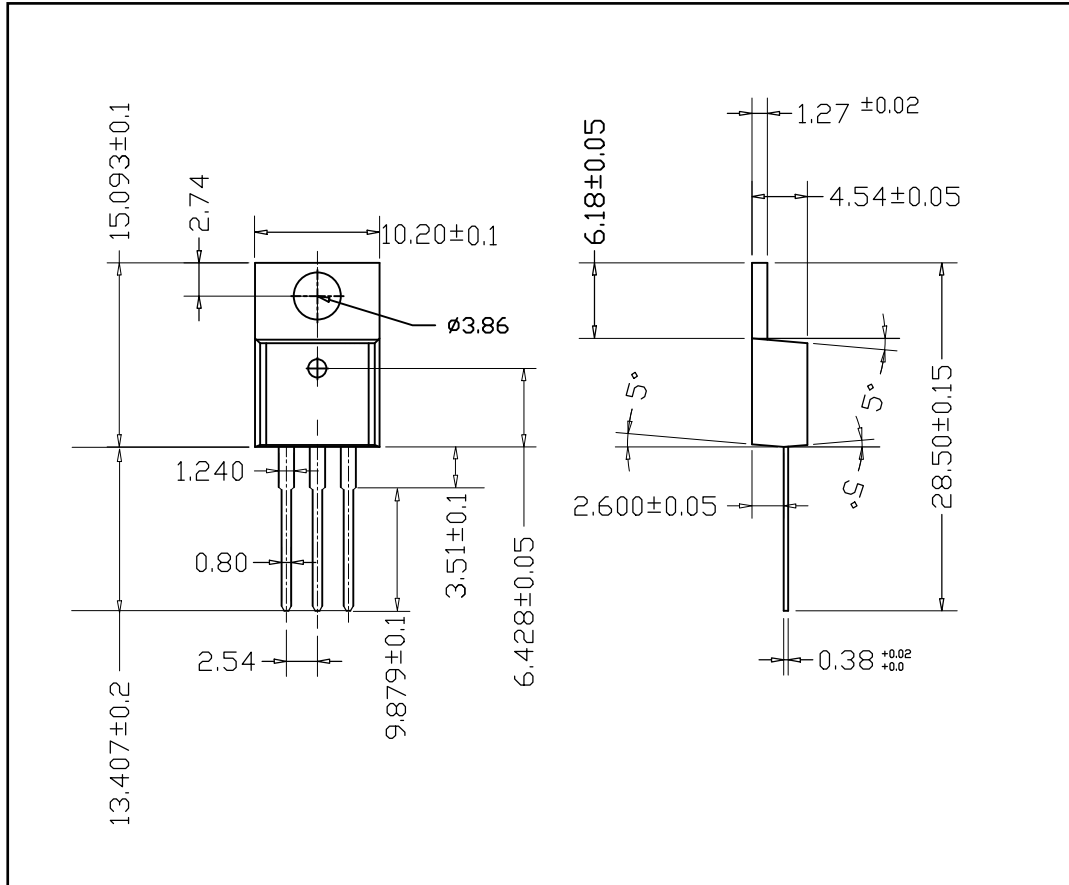


Fig.4 Max Non-Repetitive Surge Current



### ■ TO-220 PACKAGE OUTLINE DIMENSIONS



■ TO-263 PACKAGE OUTLINE DIMENSIONS

