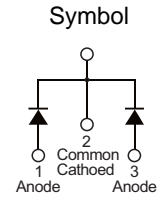


■ PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	45V
VF(Typ@IF=10A)	0.58V
IR(@VR=45V)	50uA
ID	20A

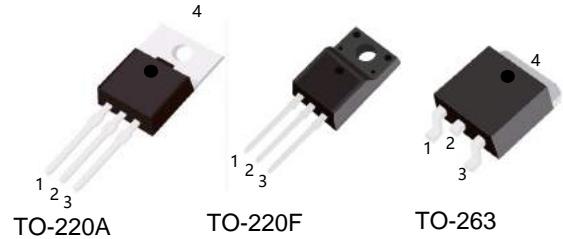


■ MECHANICAL CHARACTERISTICS

- * 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

- * 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	MBR2045A	TO-220	50pieces/Tube
N/A	MBR2045F	TO-220F	50pieces/Tube
N/A	MBR2045E	TO-263	800pieces/Reel

■ MAXIMUM RATINGS (Each diode leg)

Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	45	V
Average rectified output current	Total	20	A
	Per leg	10	A
Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on reate load	I_{FSM}	200	A
Operating and storage temperature range	T_J, T_{STG}	-55 to + 175	°C

■ ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Peak repetitive reverse voltage	B_V	$I_C=0.5mA, T_J=25^\circ C$	45	-	-	V
Forward voltage drop	V_F	$I_F=10A, T_J=25^\circ C$	-	0.58	0.63	V
Leakage current	I_R	$V_R=45V, T_J=25^\circ C$	-	-	0.05	mA
		$V_R=45V, T_J=125^\circ C$	-	-	6	

■ TYPICAL CHARACTERISTICS

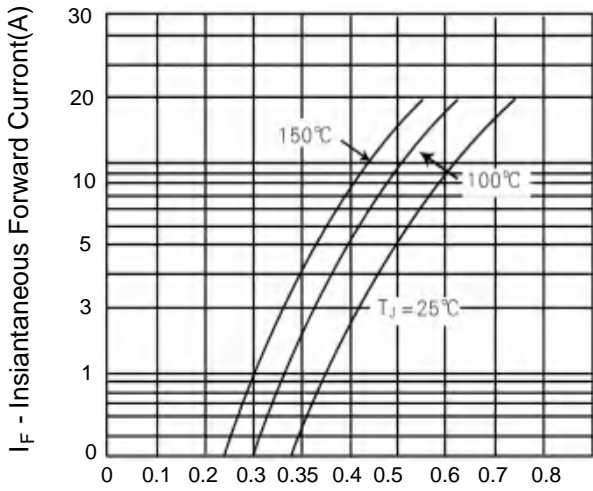


Figure 1. Typical Forward Voltage Per Diode

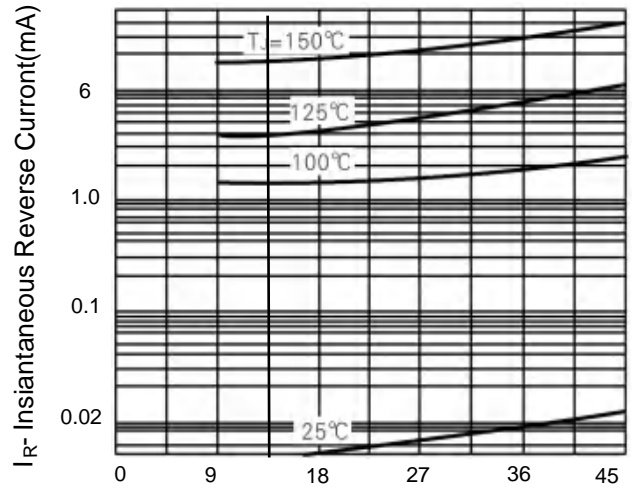
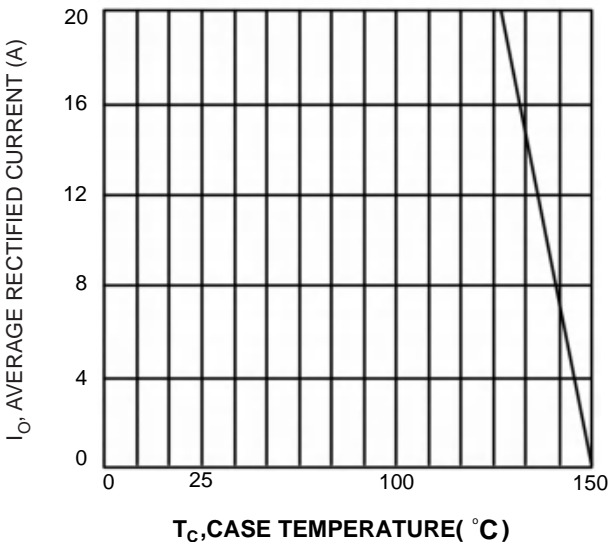
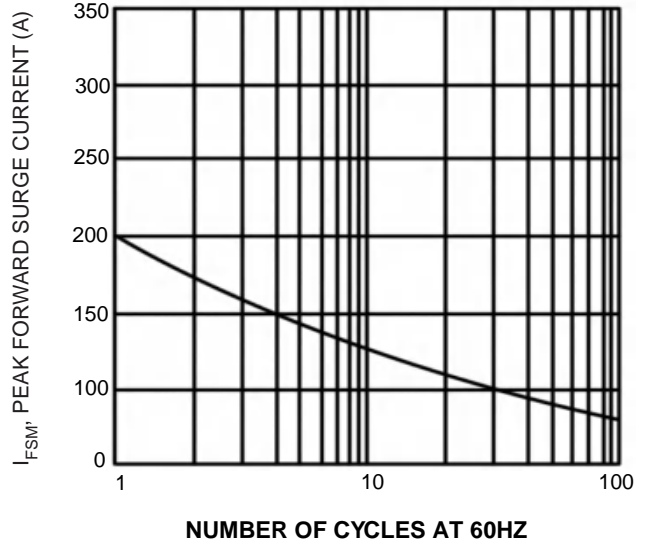


Figure 2. Typical Reverse Current Per Diode

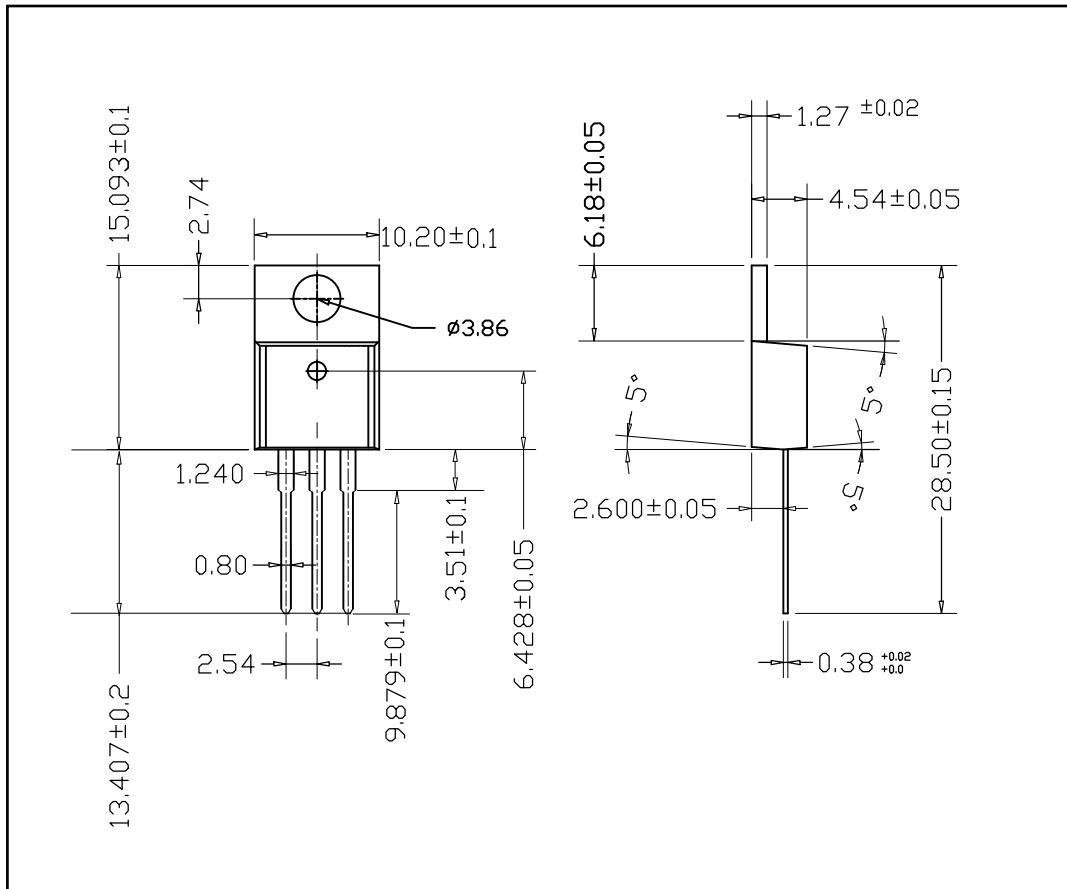


T_C , CASE TEMPERATURE ($^\circ\text{C}$)
 Fig.3 Forward Current Derating Curve

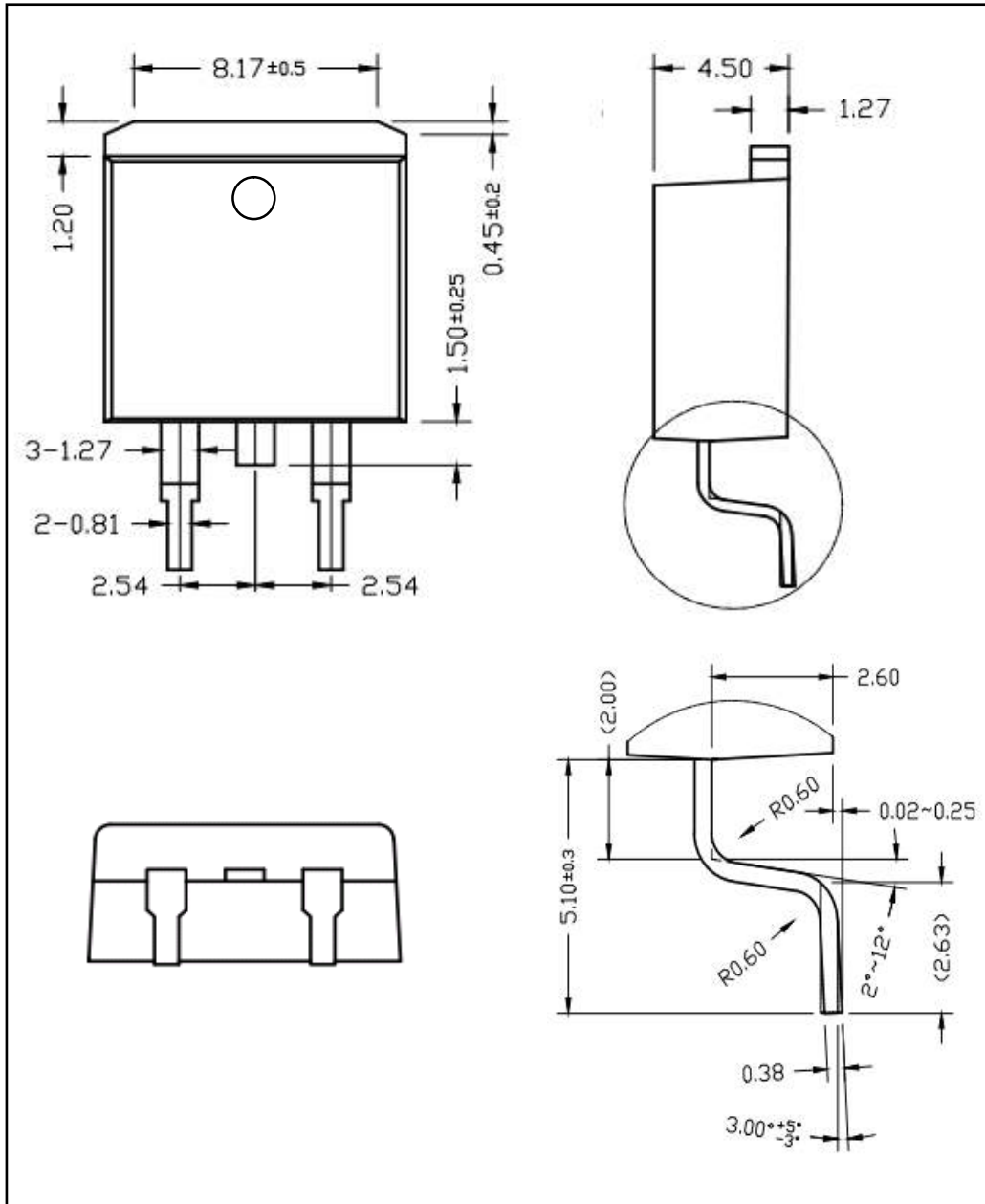


NUMBER OF CYCLES AT 60HZ
 Fig.4 Max Non-Repetitive Surge Current

■ TO-220 PACKAGE OUTLINE DIMENSIONS



■ TO-263 PACKAGE OUTLINE DIMENSIONS



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