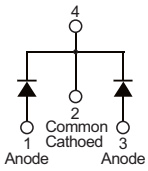
■ PRODUCT CHARACTERISTICS

V_R(@I_c=0.5mA)	200V
V_F(Typ@I_F=5A)	0.95V
I_R(@V_R=200V)	20uA
I_D	20A
T_{rr}	35nS

Symol

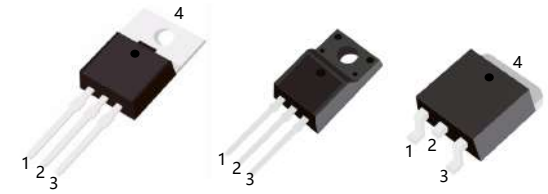


■ APPLICATION

* Case epoxy molded
* Leds are readily solderable

■ FEATURES

* Guard ring for stress protection
* Low forward voltage
* Low power loss high efficiency
* High surge capacity
* Pb free packages are available



TO-220 TO-220F TO-263

■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-Free	Halogen		
N/A	MUR2002F	TO-220F	50pieces/Tube
N/A	MUR2002A	TO-220	50pieces/Tube
N/A	MUR2002E	TO-263	800pieces/Reel

■ MAXIMUM RATINGS(Each diode leg)

Parameter		Symbol	Value	Unit
Peak repetitive reverse voltage		V_{RRM}	200	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
Operationg and storage temperature range		T_J,T_{STG}	-55 to +175	°C

■ ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Peak repetitive reverse voltage	B_V	I_c=0.5mA T_J=25°C	200	-	-	V
Forward voltage drop	V_F	I_F=10A T_J=25°C	-	0.95	1.2	V
Leakage current	I_r	V_R=200V T_J=25°C	-	-	0.02	mA
		V_R=200V T_J=125°C	-	-	6	mA
Fast recovery diode reverse recovery time	T_{rr}	recovery time I_F=10A, di$_F$/dt=200A/us	-	-	35	nS

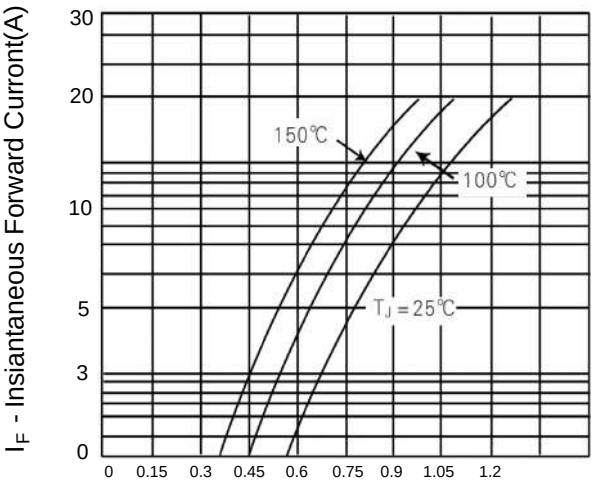


Figure 1. Typical Forward Voltage Per Diode

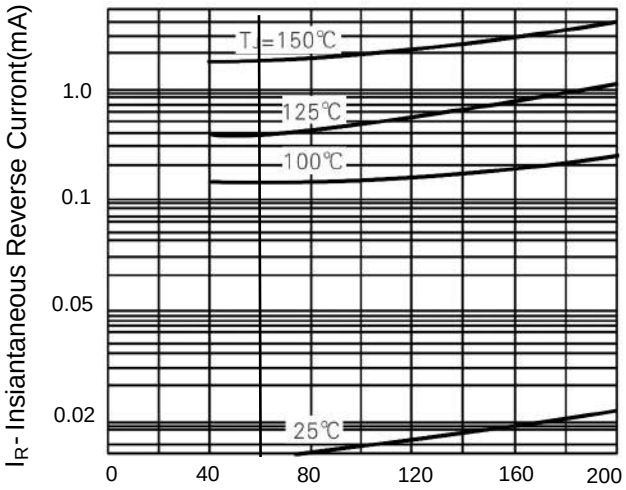


Figure 2. Typical Reverse Current Per Diode

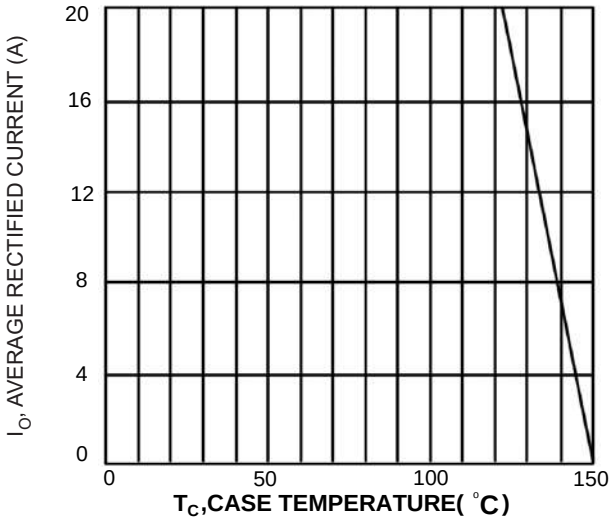


FIGURE.3 Forward Current Derating Curve

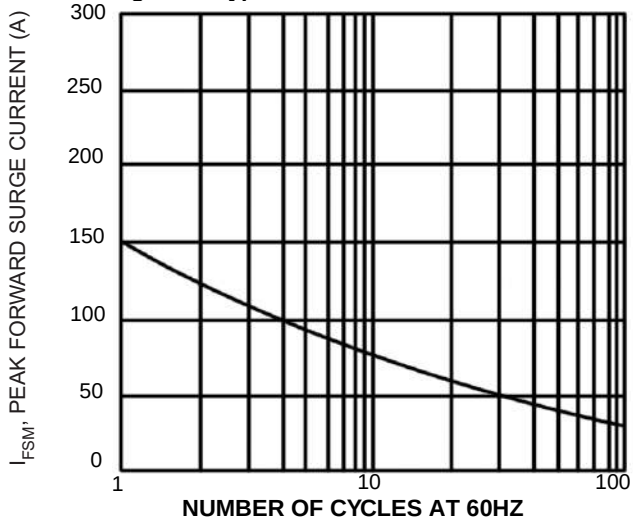


FIGURE.4 Max Non-Repetitive Surge Current

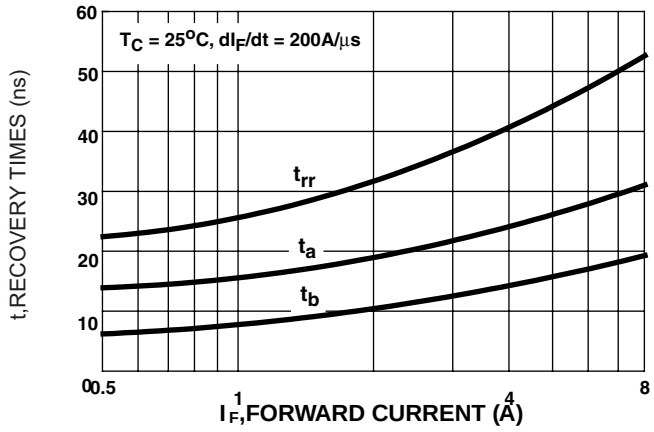
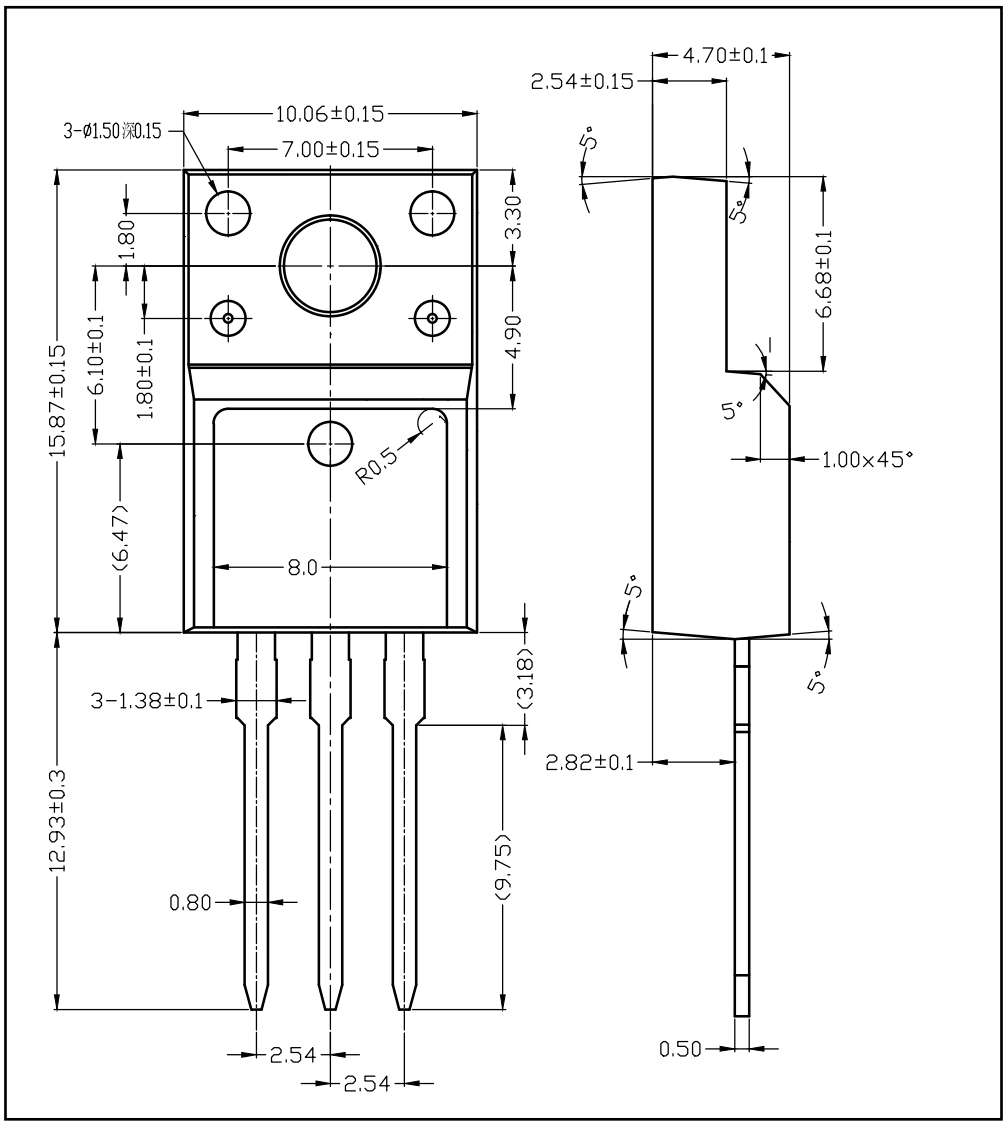
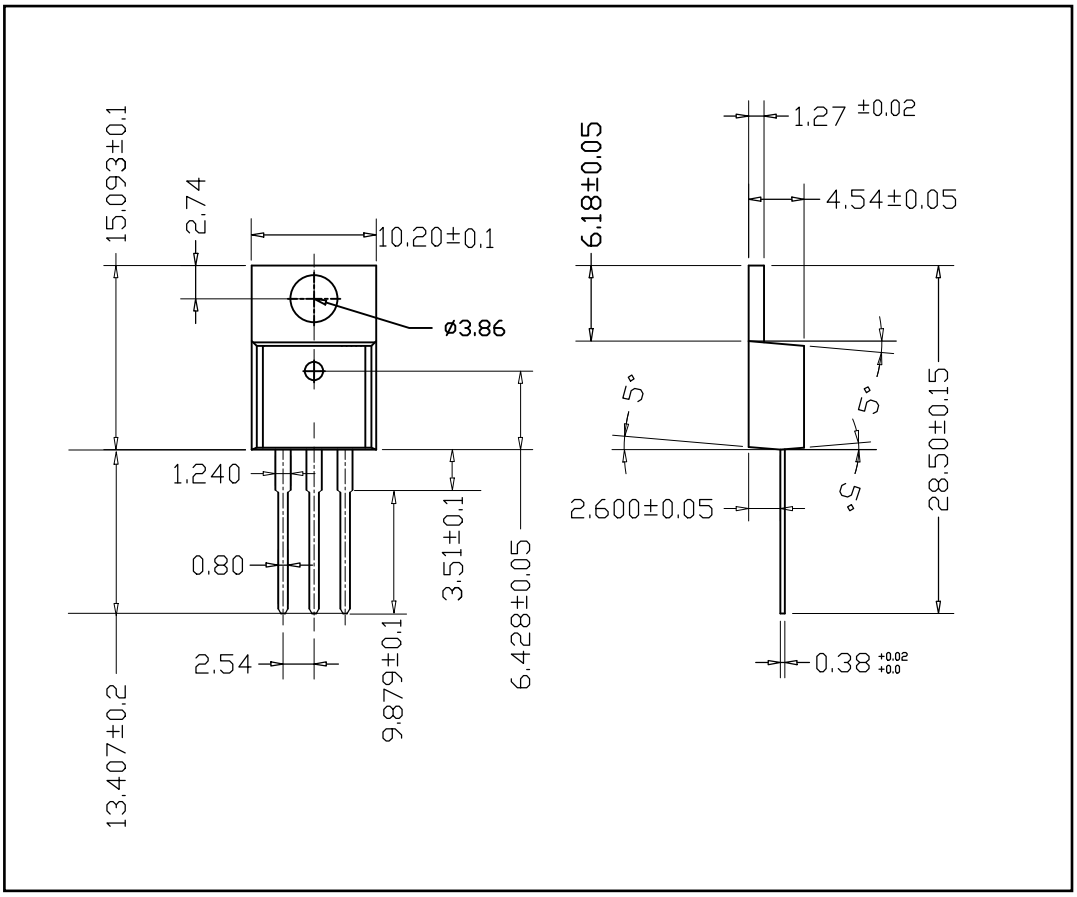


FIGURE.5 t_{rr},t_a AND t_b CURVES vs FORWARD CURRENT

■ TO-220F-3L PACKAGE OUTLINE DIMENSIONS



■ TO-220-3L PACKAGE OUTLINE DIMENSIONS



■ TO-263-2L PACKAGE OUTLINE DIMENSIONS