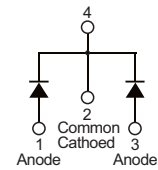


PRODUCT CHARACTERISTICS

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

Symbol

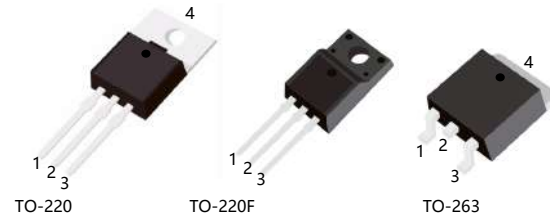


APPLICATION

- * 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



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
Operating 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	$I_C=0.5mA$ $T_J=25^{\circ}C$	200	-	-	V
Forward voltage drop	V_F	$I_F=10A$ $T_J=25^{\circ}C$	-	0.95	1.2	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	mA
Fast recovery diode reverse recovery time	T_{rr}	recovery time $I_F=10A$, $di_F/dt=200A/us$	-	-	35	nS

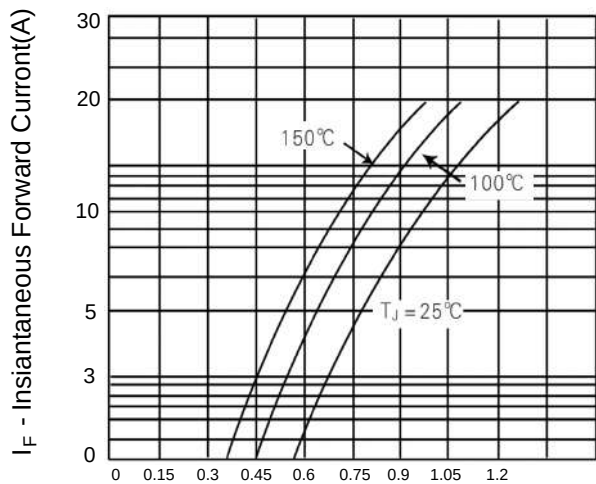


Figure 1. Typical Forward Voltage Per Diode

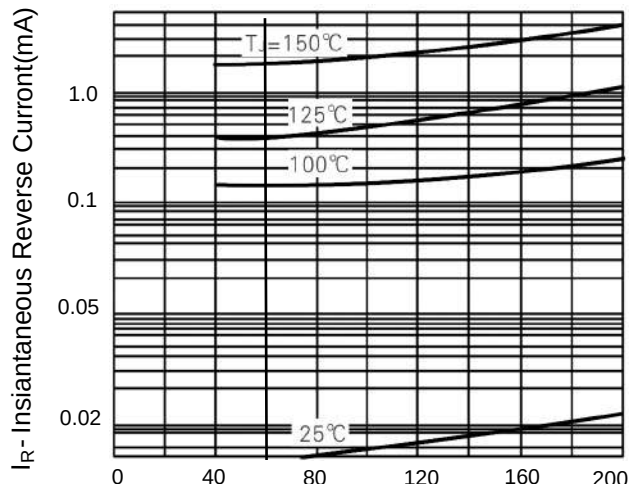


Figure 2. Typical Reverse Current Per Diode

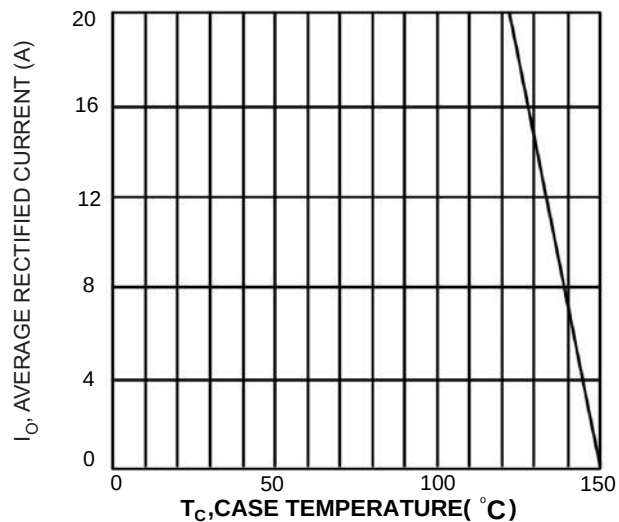


FIGURE.3 Forward Current Derating Curve

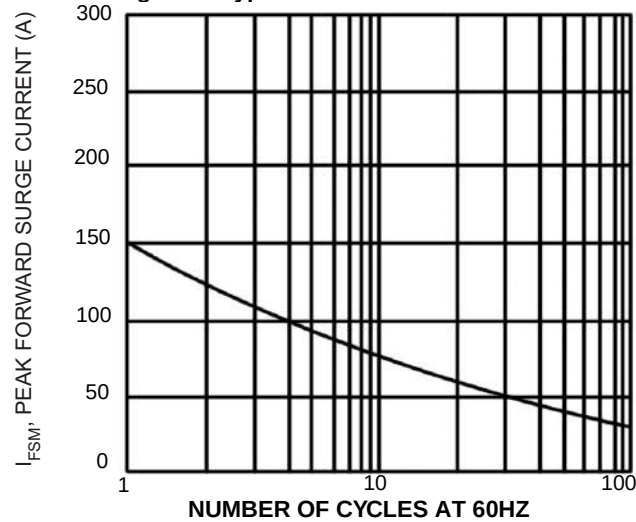


FIGURE.4 Max Non-Repetitive Surge Current

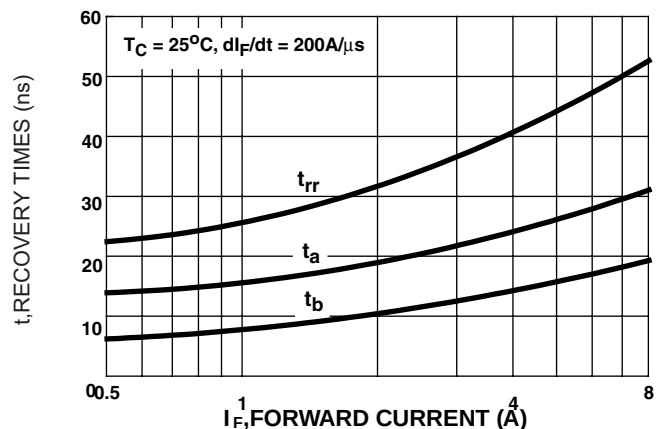
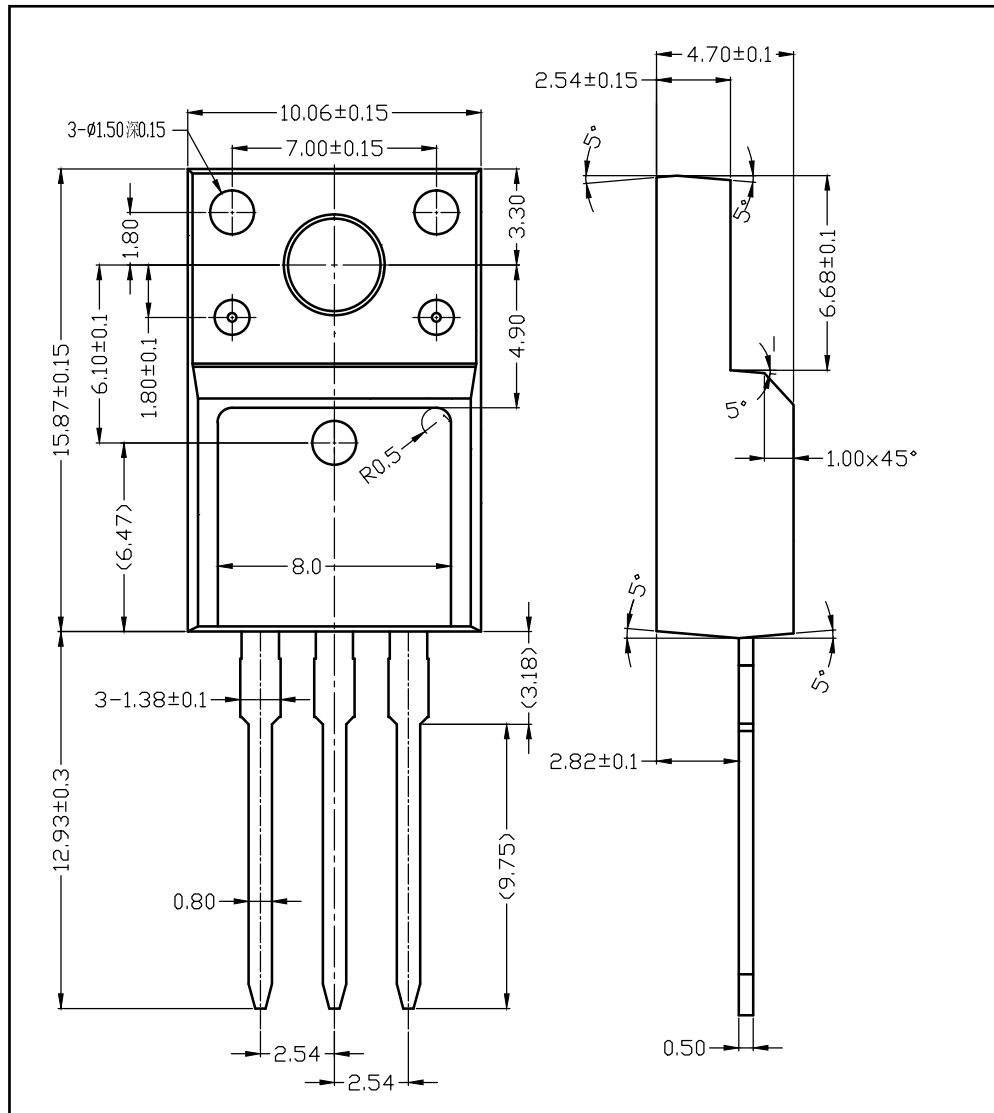


FIGURE.5 t_{rr} , t_a AND t_b CURVES vs FORWARD CURRENT

■ TO-220F-3L PACKAGE OUTLINE DIMENSIONS



■ TO-220-3L PACKAGE OUTLINE DIMENSIONS

