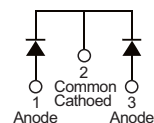


PRODUCT CHARACTERISTICS

$V_R(@I_C=0.5mA)$	600V
$V_F(Typ@I_F=15A)$	1.5V
$I_R(@V_R=600V)$	10uA
I_D	30A
T_{RR}	35nS

Symol

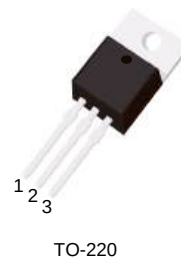


APPLICATION

- * Freewheeling, Snubber, Clamp
- * Inversion Welder
- * PFC
- * Plating Power Supply
- * Ultrasonic Cleaner and Welder
- * Converter & Chopper
- * UPS

FEATURES

- * Ultrafast Recovery Time
- * Soft Recovery Characteristics
- * Low Recovery Loss
- * Low Forward Voltage
- * High Surge Current Capability
- * Low Leakage Current



ORDER INFORMATION

Order codes		Package	Packing
Halogen-free	Halogen		
N/A	MUR3060A	TO-220	50pieces/Tube

MAXIMUM RATINGS (Each diode leg)

Parameter		Symbol	Value	Unit
Peak repetitive reverse voltage		V_{RRM}	600	V
Average rectified output current	Total	I_O	30	A
	Per leg		15	A
Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on reate load		I_{FSM}	300	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	$I_C=0.5mA, T_J=25^{\circ}C$	600	-	-	V
Forward voltage drop	V_F	$I_F=15A, T_J=25^{\circ}C$	-	1.35	1.5	V
Leakage current	I_R	$V_R=600V, T_J=25^{\circ}C$	-	-	0.01	mA
		$V_R=600V, T_J=125^{\circ}C$	-	-	10	mA
Fast recovery diode reverse recovery time	T_{RR}	Recovery time $I_F=1A, dI_F/dt=200A/\mu s$	-	-	35	nS

■ TYPICAL CHARACTERISTICS

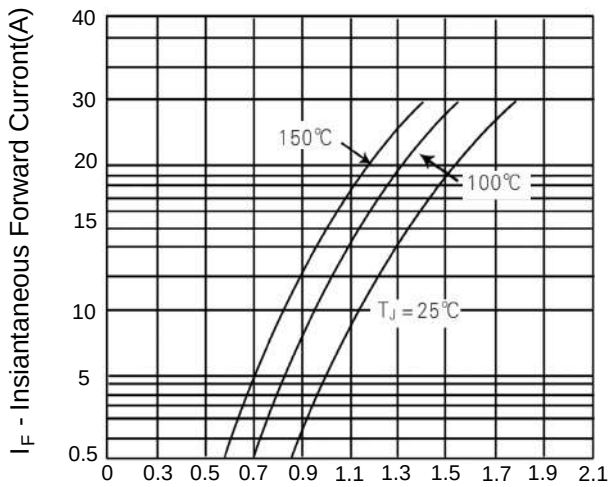


Figure 1. Typical Forward Voltage Per Diode

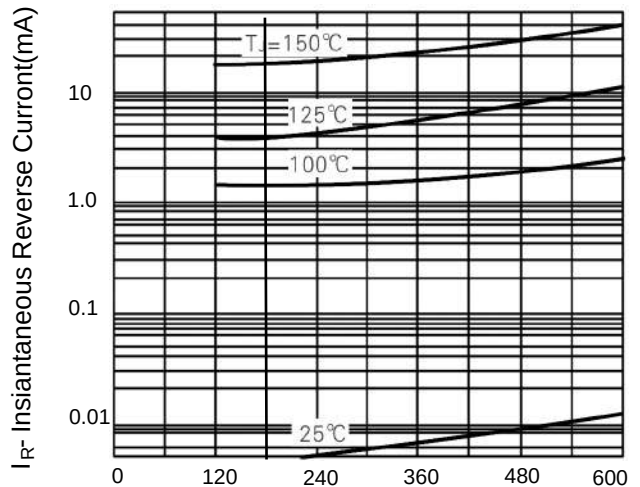


Figure 2. Typical Reverse Current Per Diode

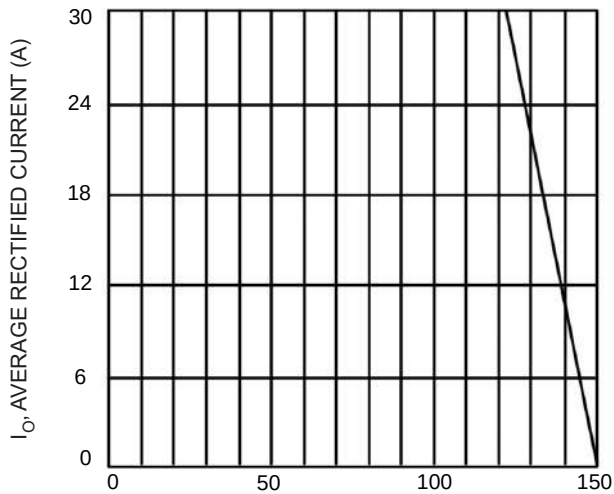


Fig.3 Forward Current Derating Curve

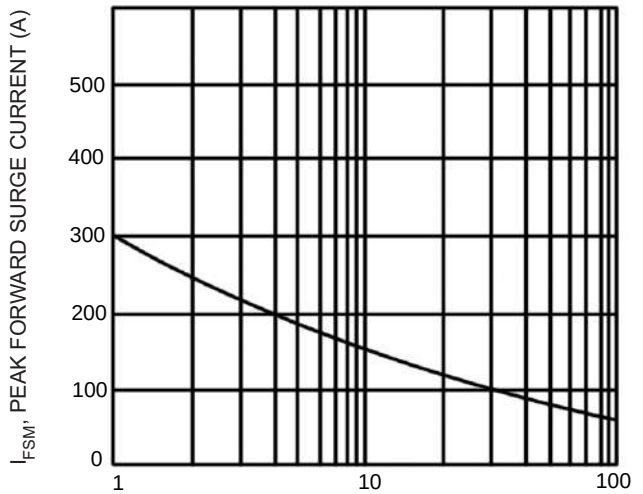
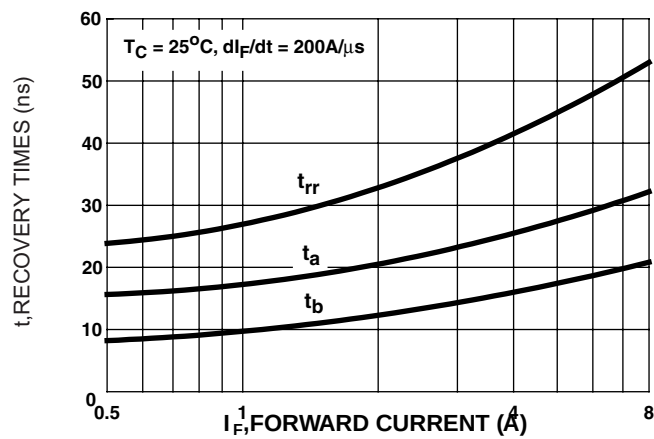


Fig.4 Max Non-Repetitive Surge Current



■ TO-220 PACKAGE OUTLINE DIMENSIONS

