

MUR2080CTR

MUR2080CTFR

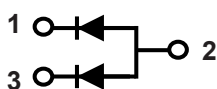
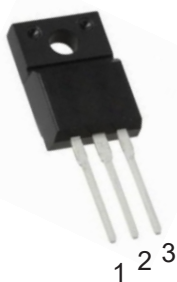
11-Jun-2020

Superfast Recovery Rectifier

TO-220AB
MUR2080CTR



TO-220F
MUR2080CTFR



Features

- Low forward voltage drop
- Low leakage current
- High current capability
- Super fast switching speed
- High forward surge capability
- High reliability

Mechanical Data

- Epoxy: UL 94V-O rate flame retardant
- Lead: lead solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any

Parameter	Symbols	MUR2080CTR	MUR2080CTFR	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	800		V
Maximum RMS voltage	VRMS	560		V
Maximum DC Blocking Voltage	VDC	800		V
Maximum Average Forward Rectified Current	I(AV)	20.0		A
Reverse Recovery Time, IF=0.5A,IR=1A,IRR=0.25A	Trr	35		ns
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200		A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	166		A ² S
Instantaneous Forward Voltage per Diode@TA=25 °C	VF	Typ	Max	V
		1.32	--	
		2.05	2.30	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	10 500		μA
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150		°C
Typical thermal resistance (Note 1)	RthJC	2.5	3	°C/W

Note: 1. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
Unit mounted on glass-epoxy substrate with 1oz/ft² 20x20 mm copper pad per pin with heatsink

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig. 1 Forward Current Derating Curve

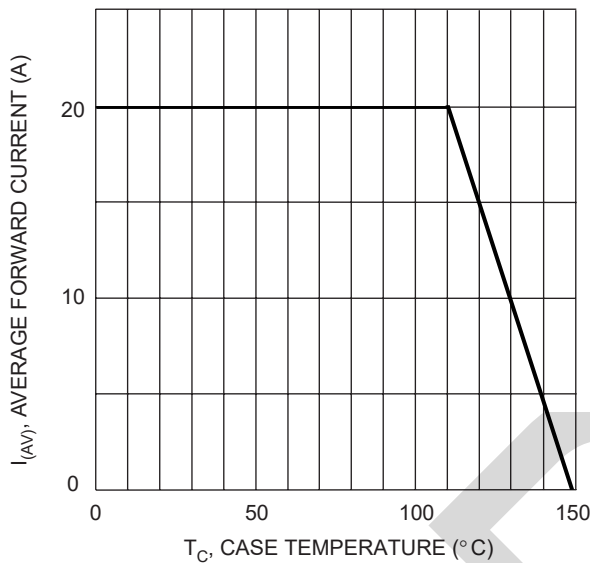


Fig. 2 Typical Forward Characteristics

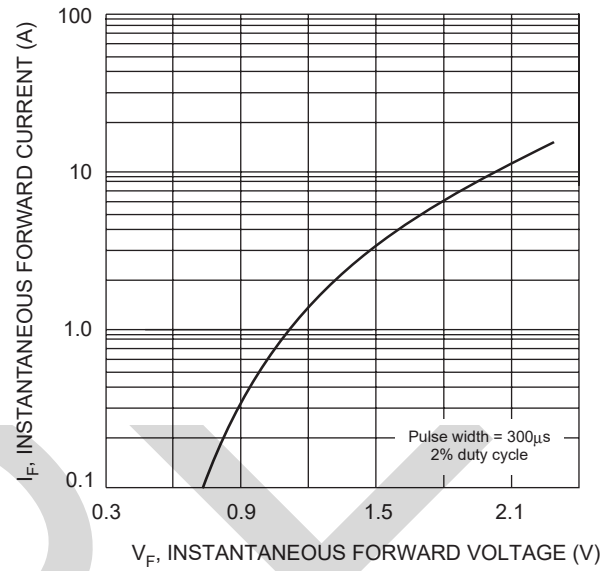


Fig. 3 Max Non-Repetitive Surge Current

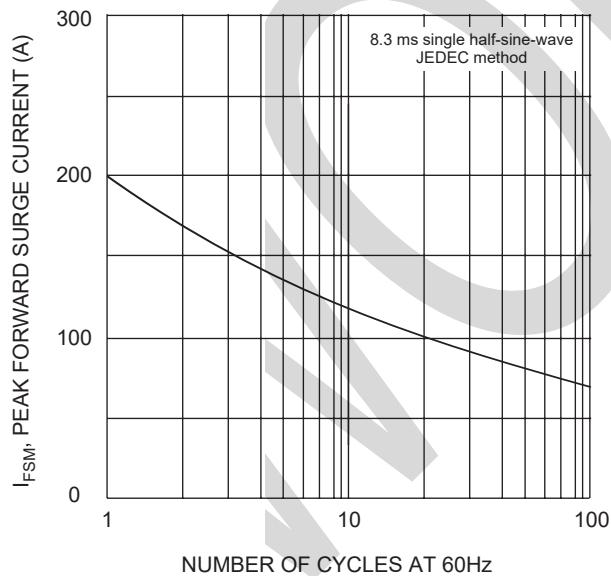
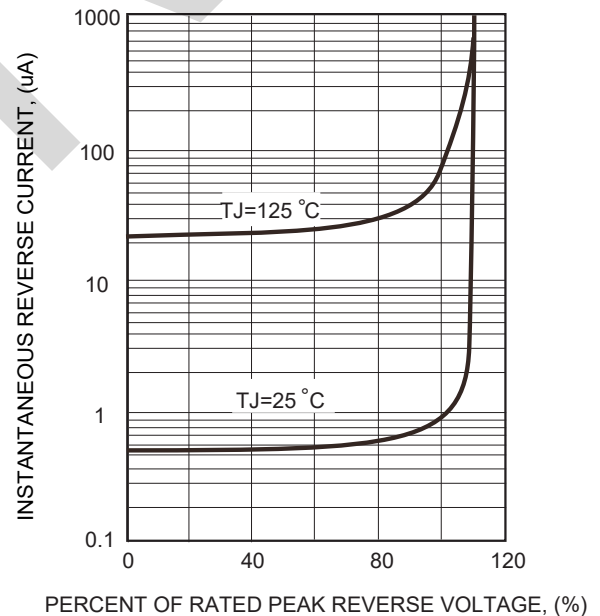


Fig.4 Typical Reverse Characteristics



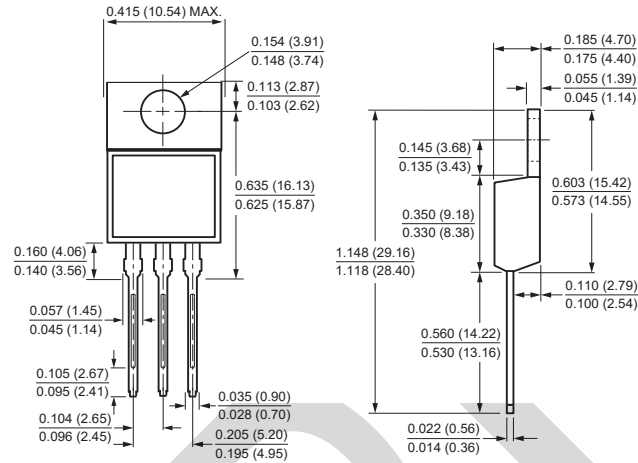
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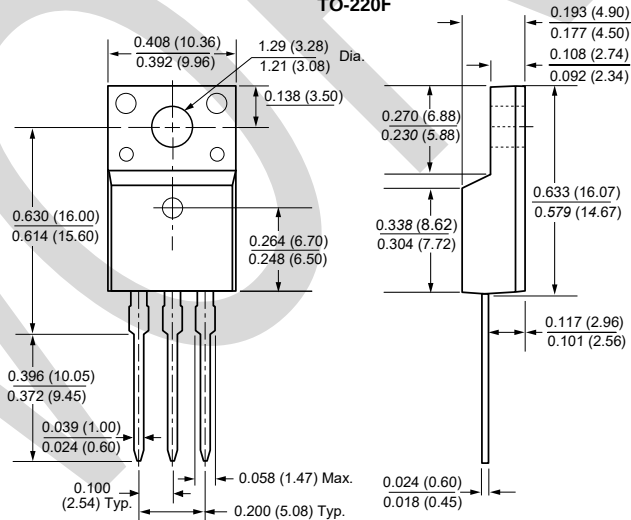
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



TO-220F



Marking Information

