

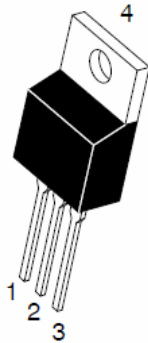
MUR2040CT-A

MUR2040CTF-A

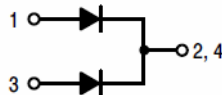
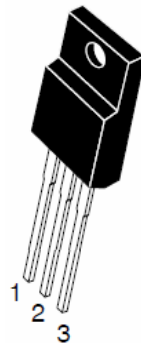
03-JUN-2019

Superfast Recovery Rectifier

**MUR2040CT-A
TO-220AB**



**MUR2040CTF-A
TO-220F**



Features

- Low forward voltage drop
- Low leakage
- 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
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.054ounce, 1.549gram

Parameter	Symbols	MUR2040CT-A	MUR2040CTF-A	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	400		V
Maximum RMS voltage	VRMS	280		V
Maximum DC Blocking Voltage	VDC	400		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	150		A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	93.3		A ² S
Maximum Forward Voltage at 10.0A and 25 °C	VF	1.3		V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=100 °C	IR	10 500		μA
Typical Junction Capacitance (Note1)	Cj	85		pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150		°C
Typical thermal resistance (Note 2)	RthJC	2.5	3	°C/W

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. 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 TYPICAL FORWARD CURRENT DERATING CURVE

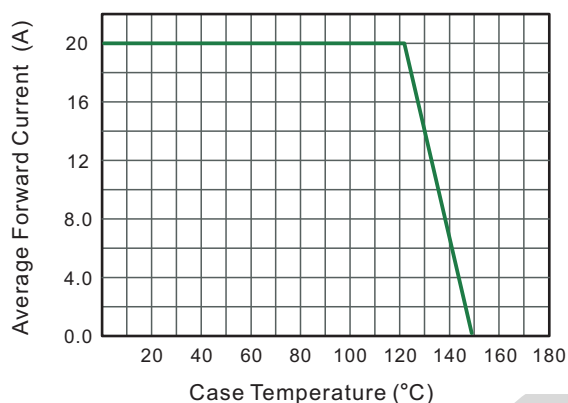


Fig.2 Typical Reverse Characteristics

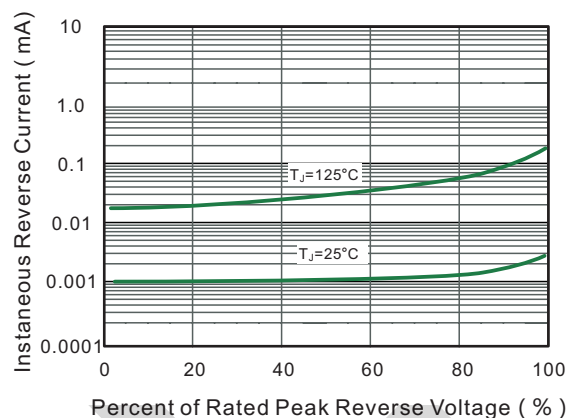


Fig.3 Typical Forward Characteristics

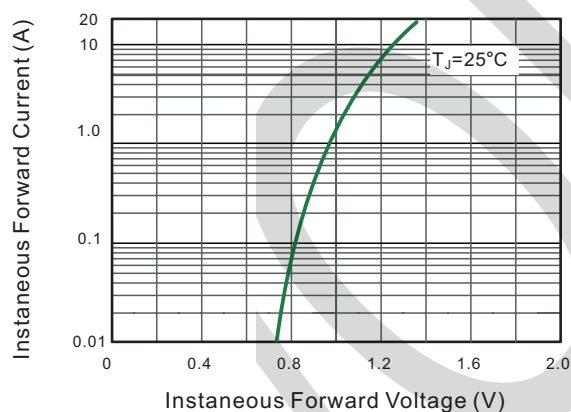
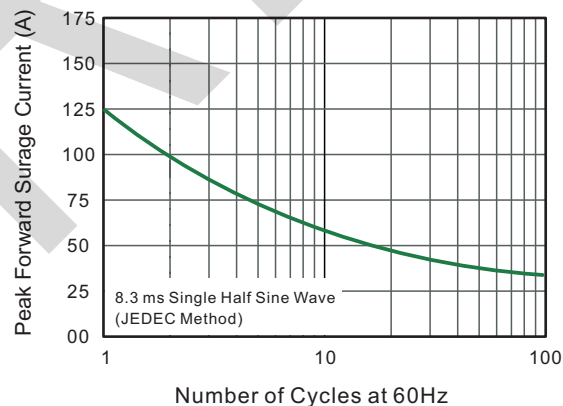


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



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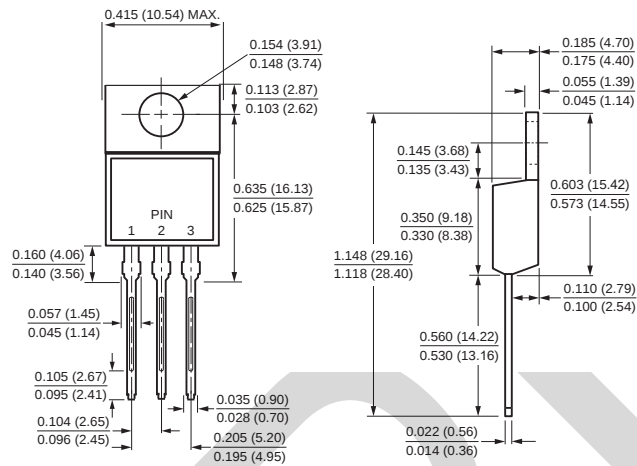
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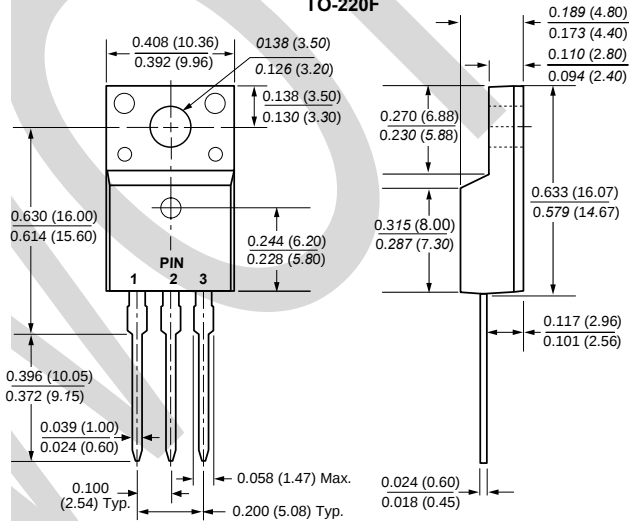
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



TO-220F

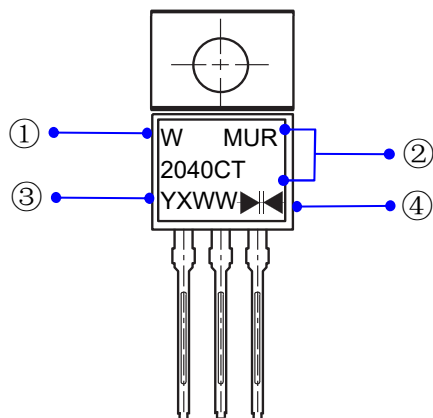


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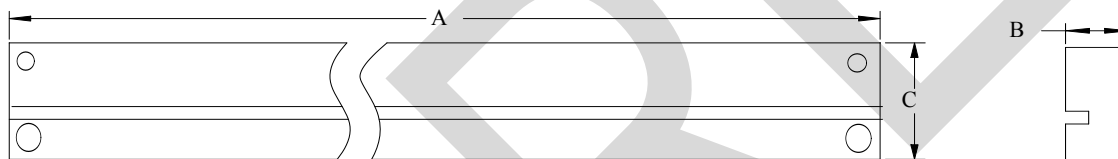
Marking Information



- ①W : Company's trademark
- ②Product model : MUR2040CT or MUR2040CTF
- ③PDC information:
 Y X WW
 WW:Week code(01 to 53)
 X:Internal identification code
 Y:Year code(ex:0=2020)
- ④  Double wafer

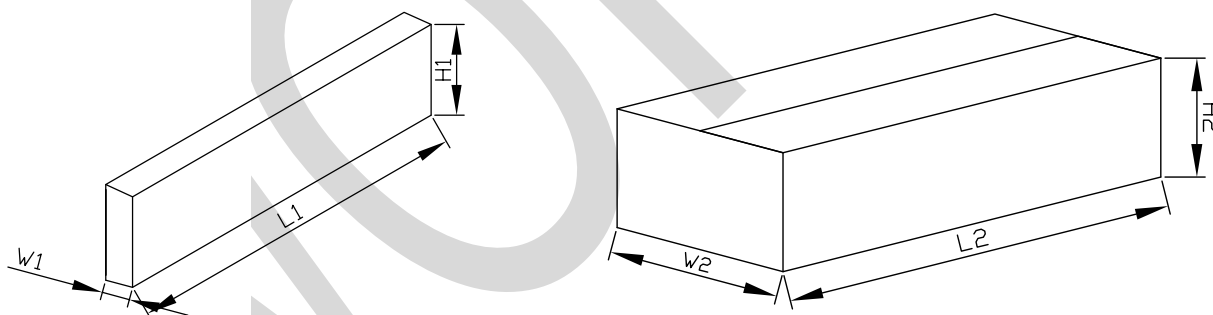
Packaging Information

1.Tube Dimensions



2.Inside Box

3.Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
Size	mm	A	B	C	L1	W1	H1	L2	W2	H2
		530	7	33	570	46	150	590	260	180
QTY	PCS	50PCS/Tube			Smallest package,1000PCS, 20 tube in total			5,000PCS/carton,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									