

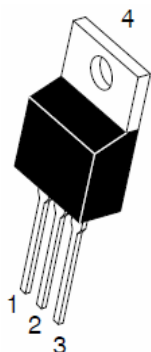
MUR1040CT

MUR1040CTF

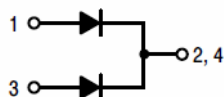
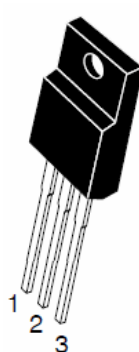
03-JUN-2018

Superfast Recovery Rectifier

**MUR1040CT
TO-220AB**



**MUR1040CTF
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	MUR1040CT	MUR1040CTF	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)	10.0		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 5.0A and 25 °C	VF	1.35		V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=100 °C	IR	5 50		μA
Typical Junction Capacitance (Note1)	Cj	50		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

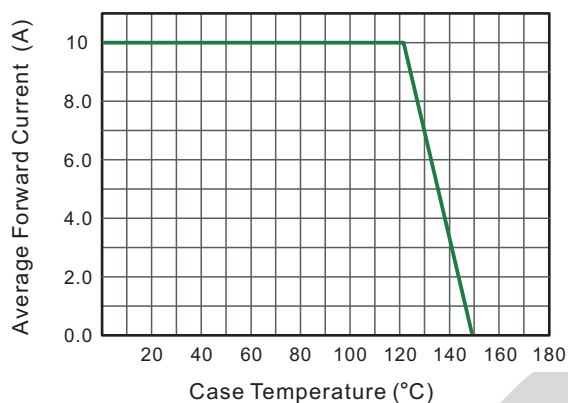


Fig.2 Typical Reverse Characteristics

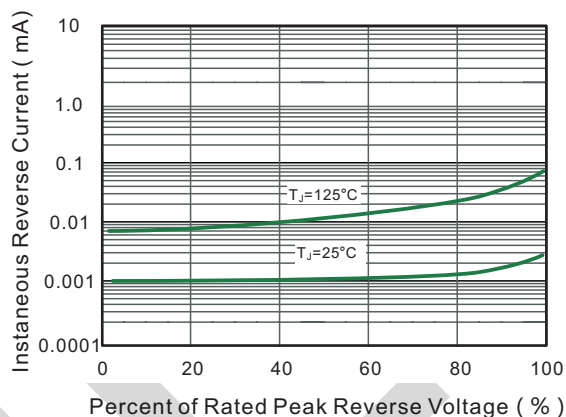


Fig.3 Typical Forward Characteristics

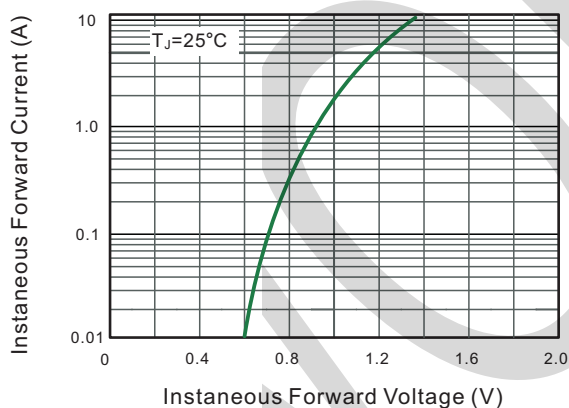
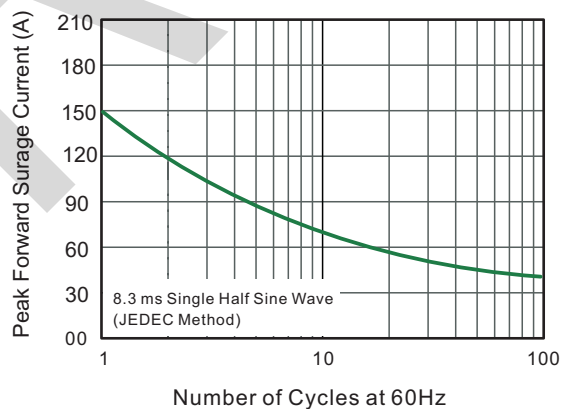


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



MUR1040CT

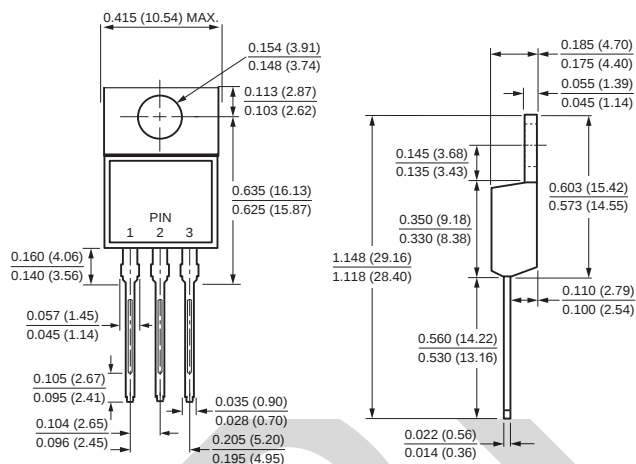
MUR1040CTF

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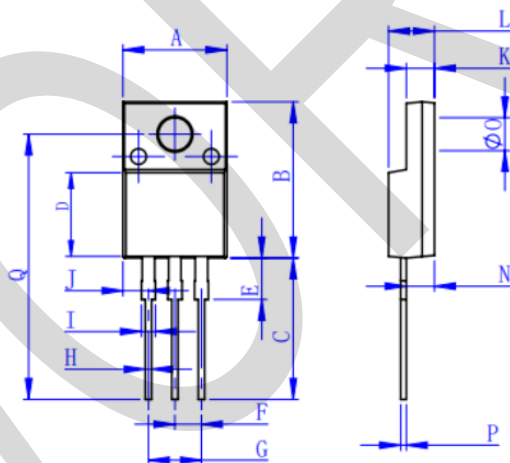
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



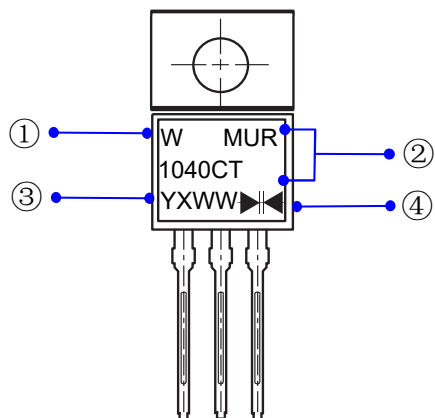
TO-220F



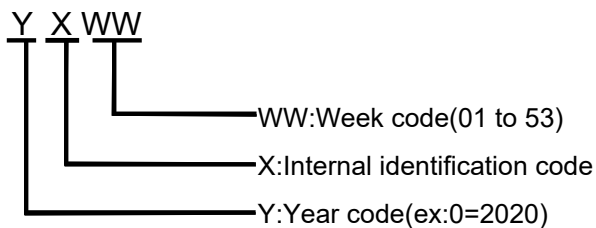
TO-220F mechanical data

UNIT		A	B	C	D	E	F	G	H	I	J	K	L	N	O	P	Q
mm	min	9.8	14.8	13.4	7.5	3.8	2.35	4.9	0.5	1.25	2.3	2.5	4.2	2.5	3.1	0.5	25.2
	max	10.2	15.2	13.8	8.5	4.2	2.75	5.3	0.7	1.45	2.6	2.9	4.6	2.9	3.4	0.7	25.8
mil	min	385.8	582.6	527.5	295.2	149.6	92.5	192.9	19.6	49.2	90.5	98.4	165.3	98.4	122.0	19.6	992.1
	max	401.6	598.4	543.3	334.6	165.4	108.3	208.7	27.6	57.1	102.4	114.2	181.1	114.2	133.9	27.6	1015.8

Marking Information



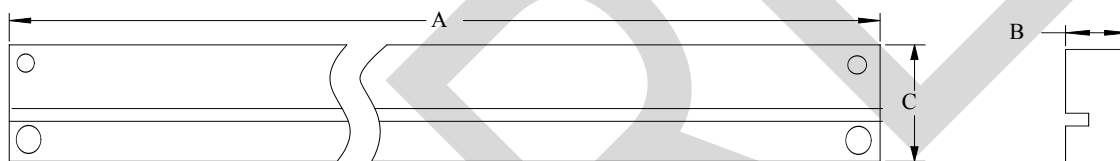
- ①W : Company's trademark
- ②Product model : MUR1040CT or MUR1040CTF
- ③PDC information:



- ④  Double wafer

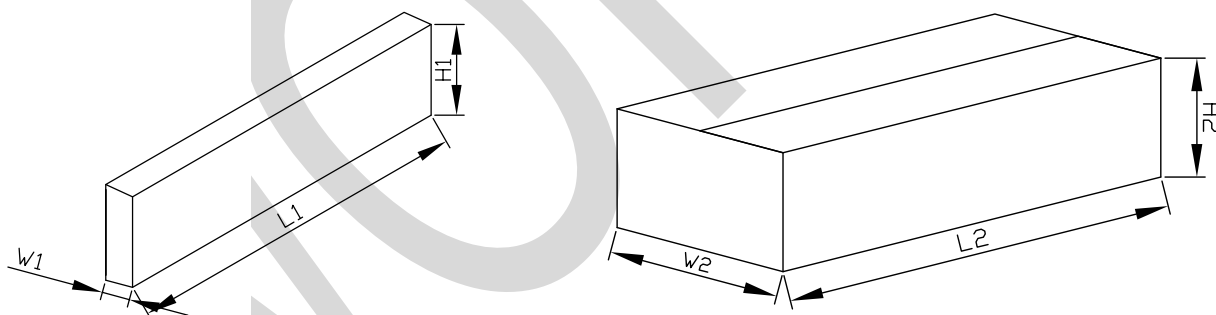
Packaging Information

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									