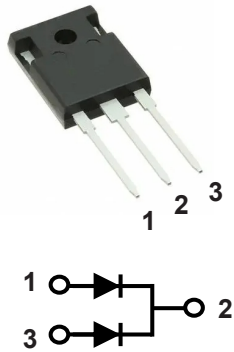


Superfast Recovery Rectifier

TO-247
MUR4040PT



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	MUR4040PT	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)	40.0	A
Maximum Reverse Recovery Time IF=0.5A, IR=1A, IRR=0.25A	Trr	50	ns
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	300	A
Max Forward Voltage at 5A and 25 °C	VF	0.93	V
Max Forward Voltage at 20A and 25 °C		1.30	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °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	1.5	°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 - FORWARD CURRENT DERATING CURVE

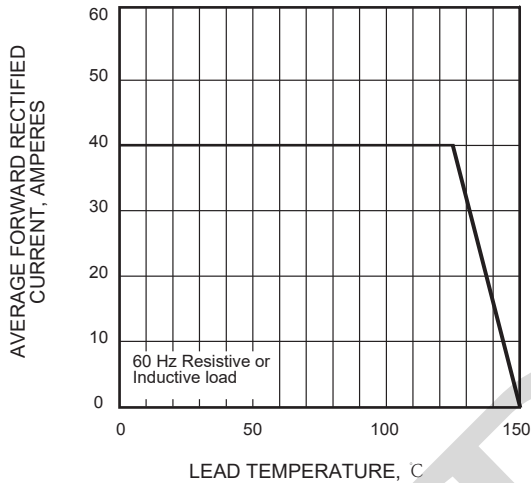


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

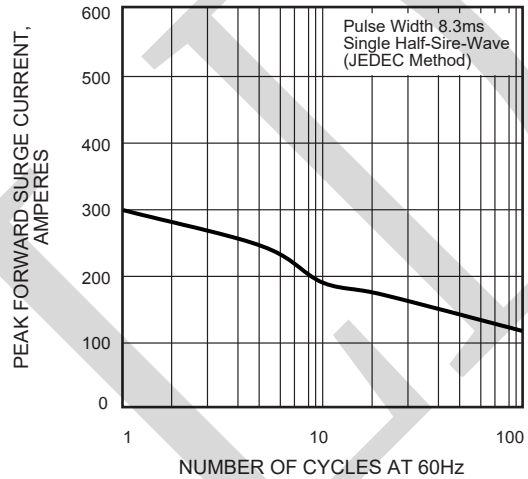


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

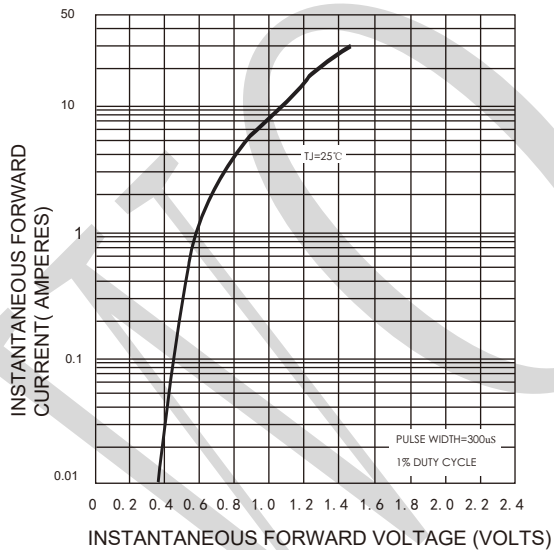
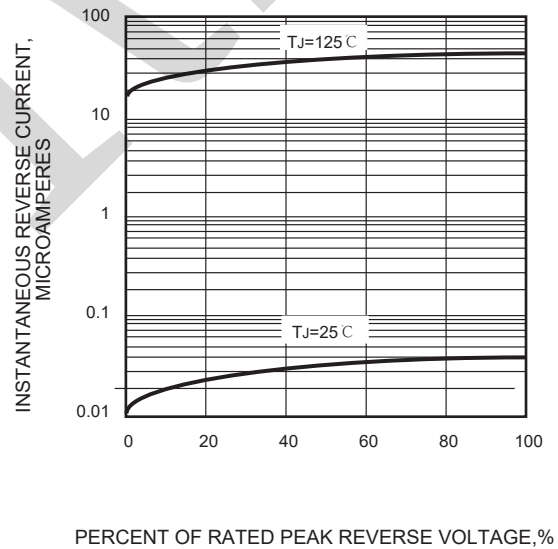


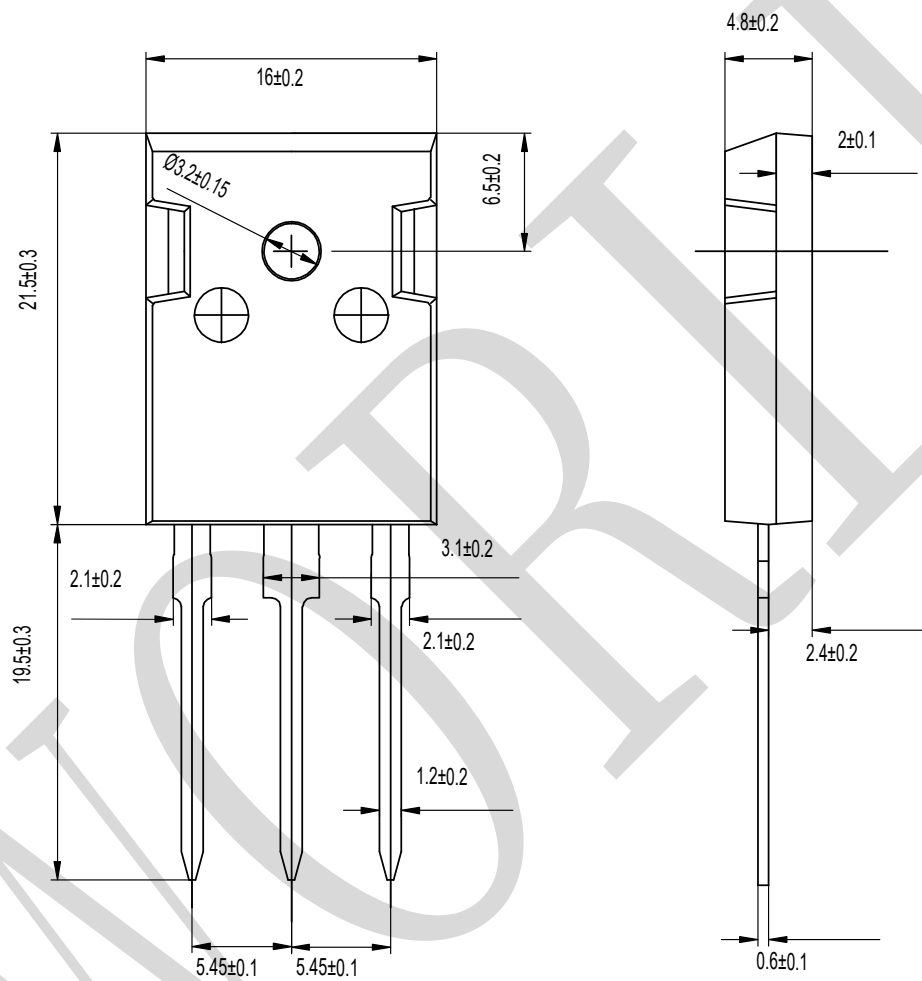
FIG.4 - TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

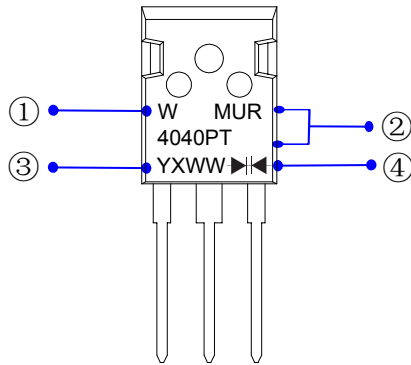
Note: unit: mm

TO-247



Dimensions in millimeters

Marking Information



①W : Company's trademark

②Product model : MUR4040PT

③PDC information:

Y X WW

WW:Week code(01 to 53)

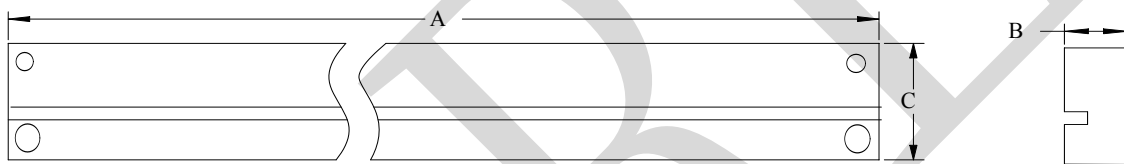
X:Internal identification code

Y:Year code(ex:0=2020)

④ Double wafer

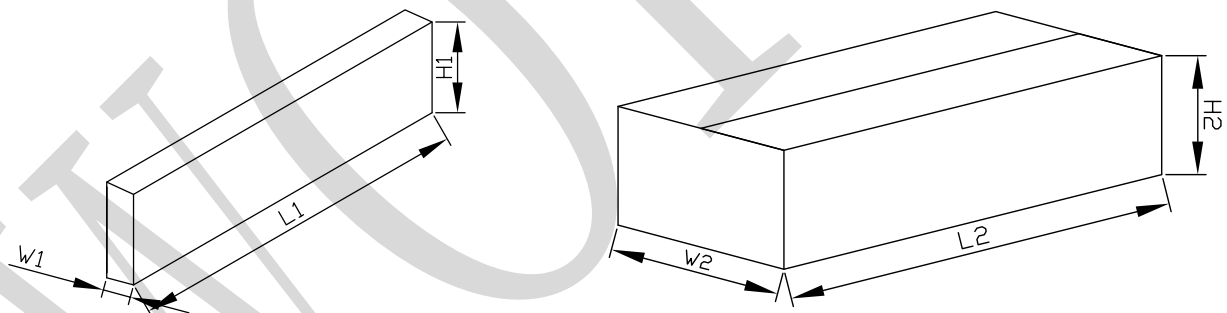
Packaging Information

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
		505	7	43	535	55	162	550	245	180
QTY	PCS	30PCS/Tube			Smallest package,600PCS, 20 tube in total			2,400PCS/carton,4 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									