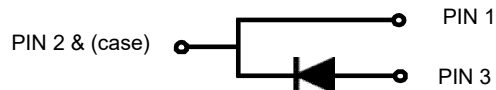


Superfast Recovery Rectifier

MUR3060APT-S

TO-247-2



Features

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

Mechanical Data

- Popular TO-247-2 Package
- Case: Epoxy, Molded
- 150°C Operating Junction Temperature
- Ultrafast 50 Nanosecond Recovery Time

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

Parameter	Symbols	MUR3060APT-S	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward Rectified Current	I(AV)	30.0	A
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
I ² t rating for fusing (1ms < t < 8.3 ms)	I ² t	373	A ² S
Maximum Forward Voltage at 30A and 25°C	VF	1.7	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	-50 ~ +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)

FIG1:Io -Tc Curve

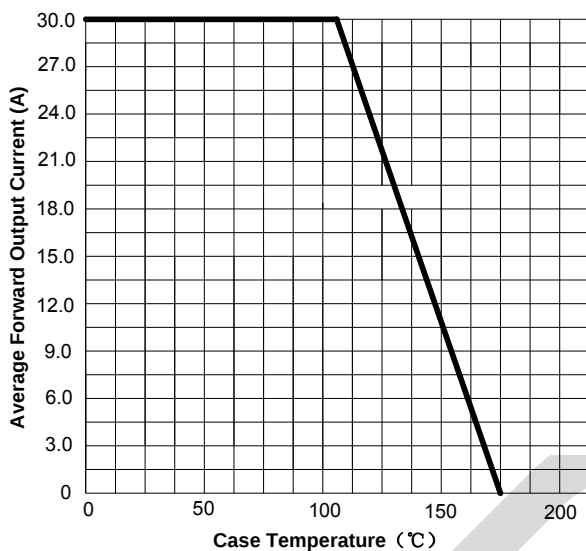


FIG2: Surge Forward Current Capability

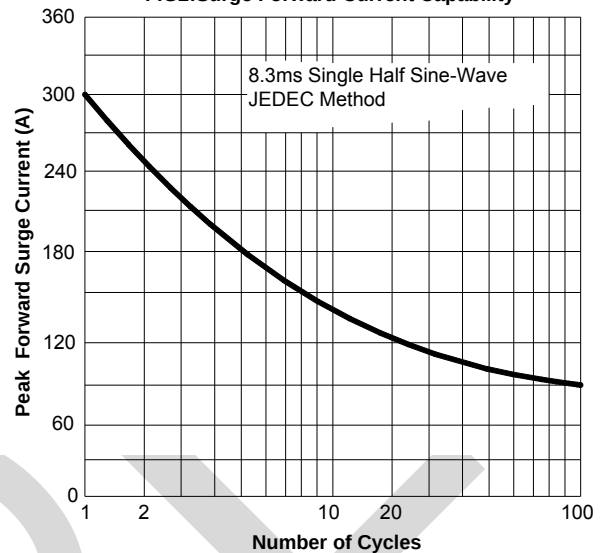


FIG3: Forward Voltage

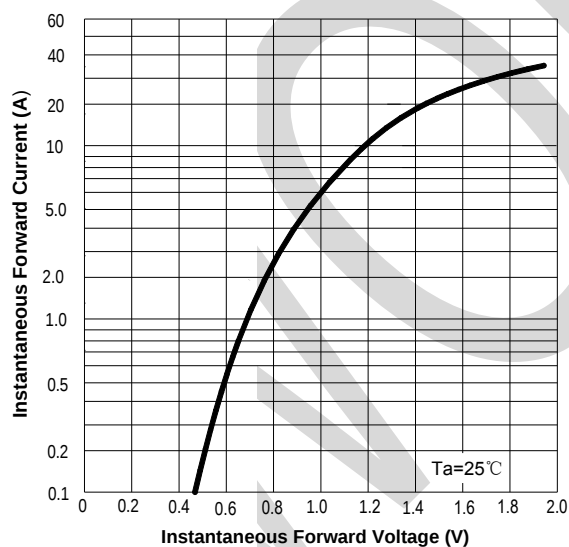
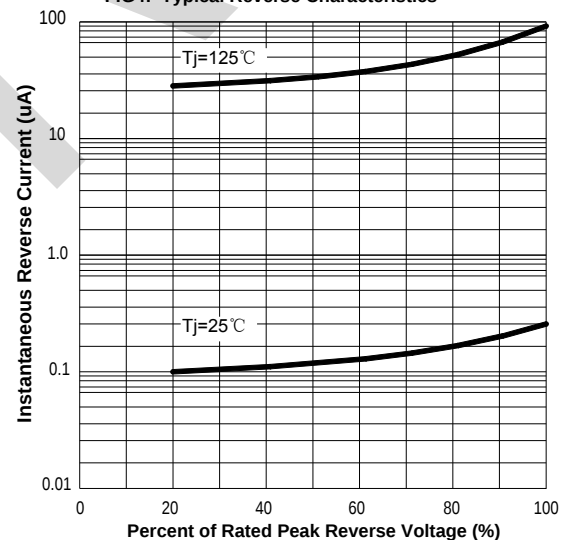
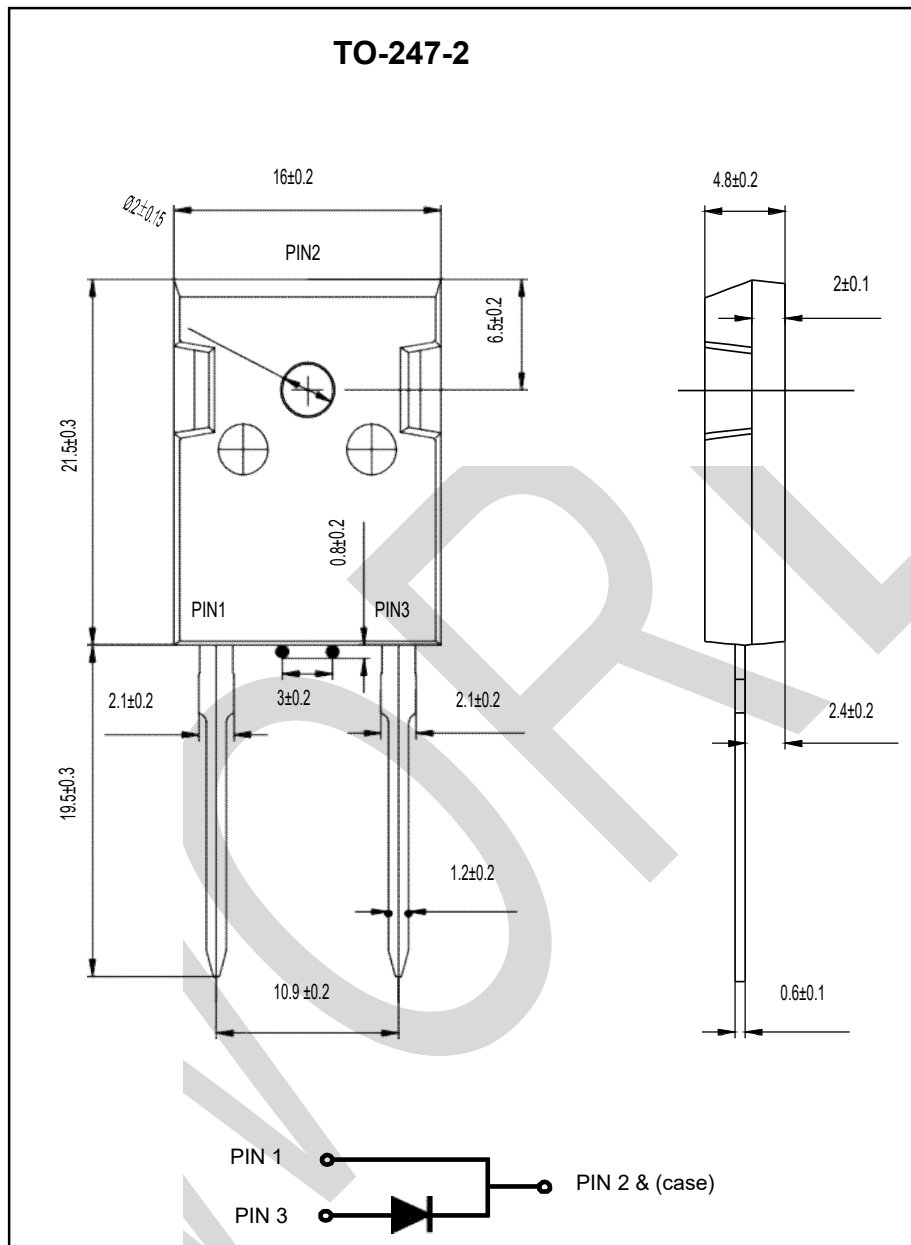


FIG4: Typical Reverse Characteristics

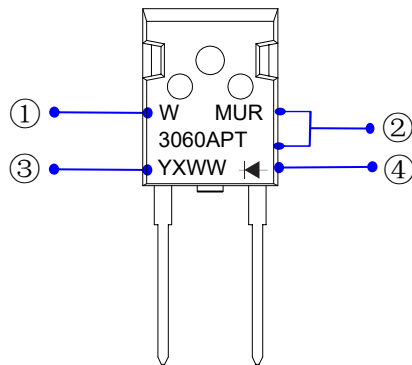


PACKAGE OUTLINE DIMENSIONS

Note:unit mm

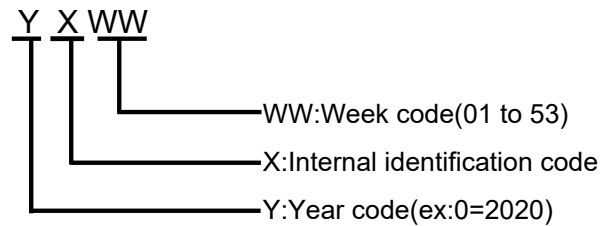


Marking Information



- ①W : Company's trademark
②Product model : MUR3060APT

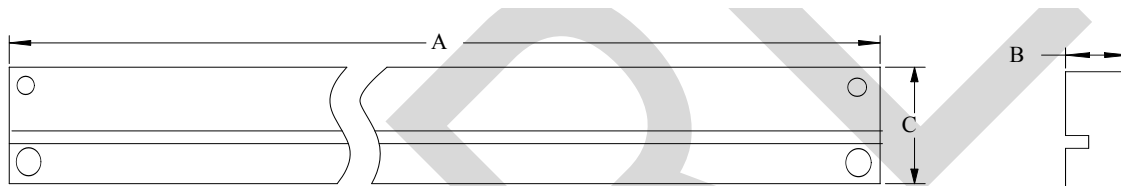
③PDC information:



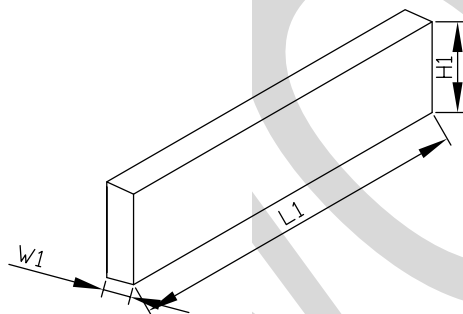
④ Single wafer

Packaging Information

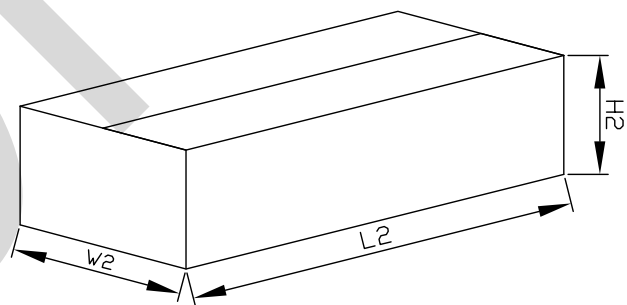
1. Tube Dimensions



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									