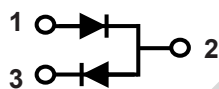
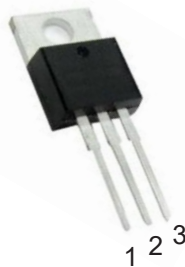


Superfast Recovery Rectifier

TO-220AB
MUR1660SCT



Features

- Glass passivated chip junctions
- Super fast recovery time for switching
- High Forward Surge Capability
- Low Reverse Current
- High forward surge capability
- High reliability

Mechanical Data

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

Parameter	Symbols	MUR1660SCT		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)	16.0		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
		IF=2A	--	
		IF=6A	1.70	
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 250		μA
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150		°C
Typical thermal resistance (Note 1)	RthJC	2.5		°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

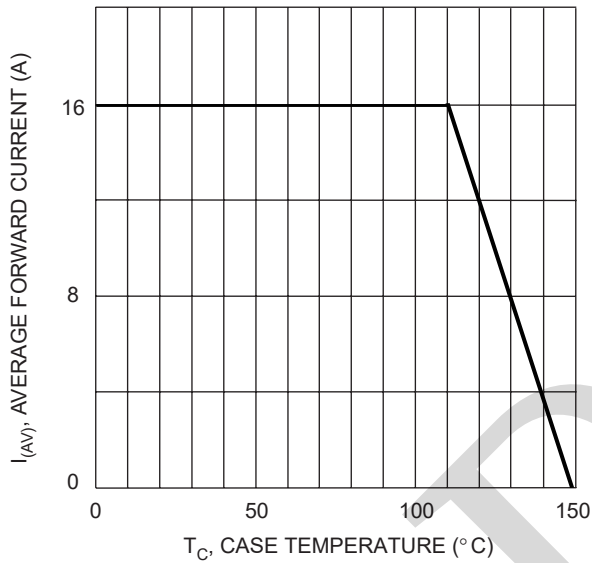


Fig. 2 Typical Forward Characteristics

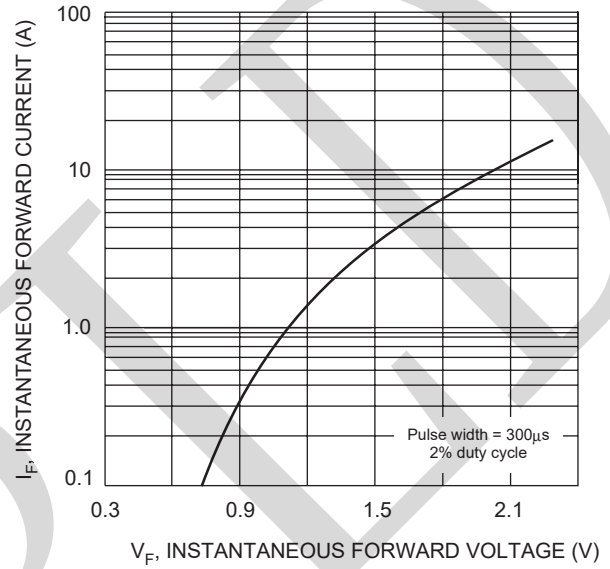


Fig. 3 Max Non-Repetitive Surge Current

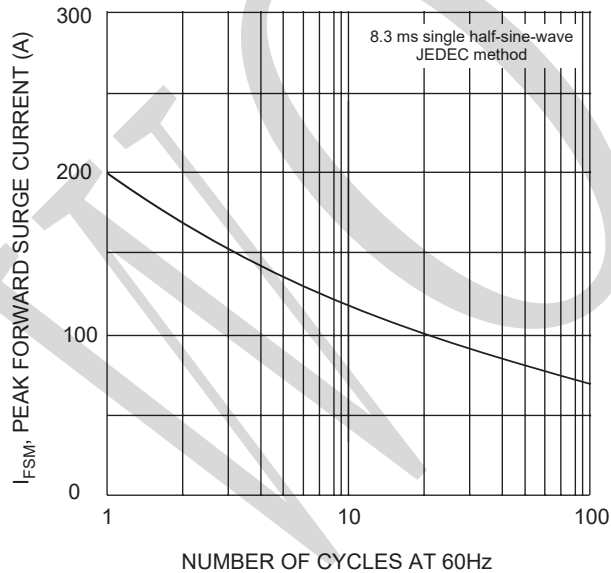
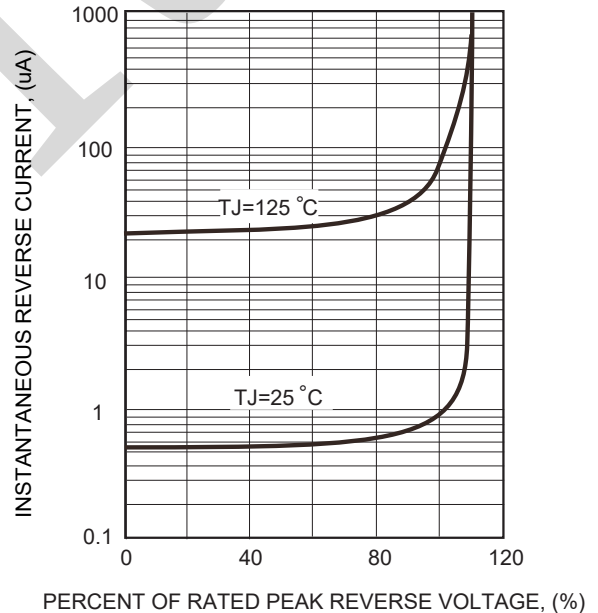
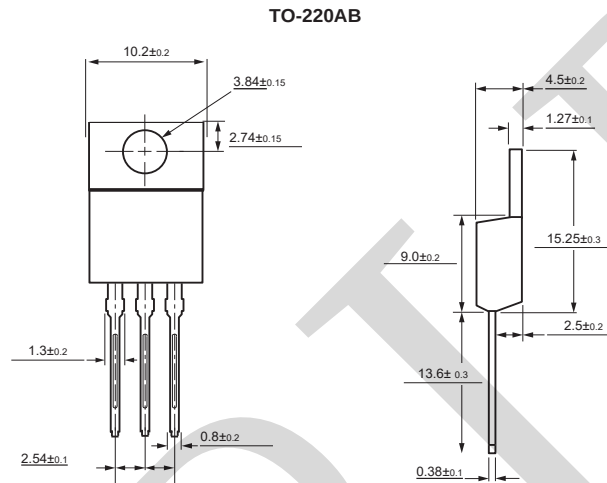


Fig.4 Typical Reverse Characteristics

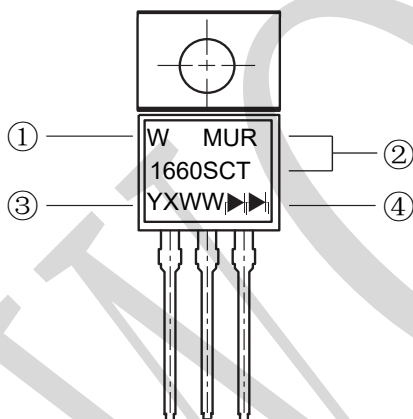


PACKAGE OUTLINE DIMENSIONS

Note:mm



Marking Information



①W : Company's trademark

②Product model : MUR1660SCT

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

④ Double wafer