

Epitaxial Superfast Recovery Rectifier

TO-220AC
MURE10L60ACT



TO-220ACF
MURE10L60ACF



PIN2  PIN1

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	MURE10L60ACT	MURE10L60ACF	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)	10		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 < 10ms)	I ² t	93.3		A ² S
Maximum Forward Voltage at 10A and 25 °C	VF	1.30		V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 250		μA
Typical Junction Capacitance (Note1)	Cj	50		pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150		°C
Typical thermal resistance (Note 2)	RthJC	6.0		°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

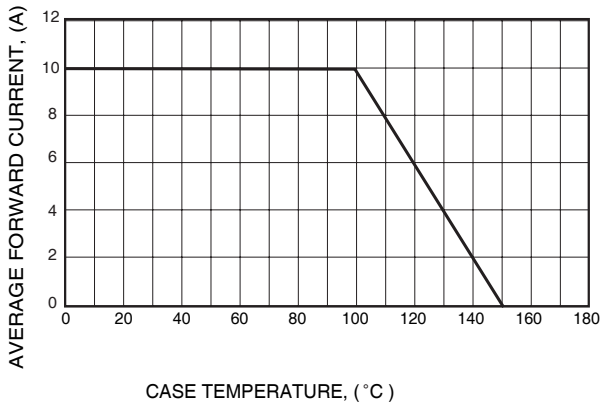


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

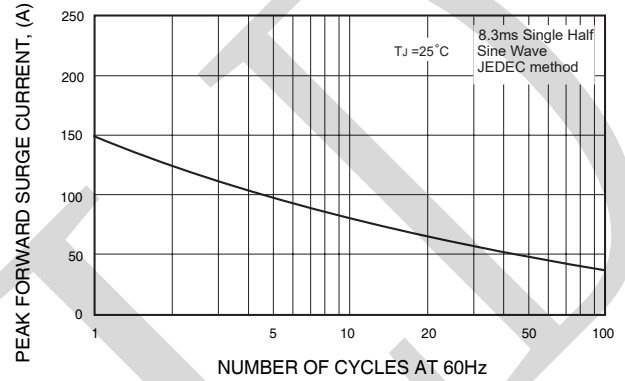


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

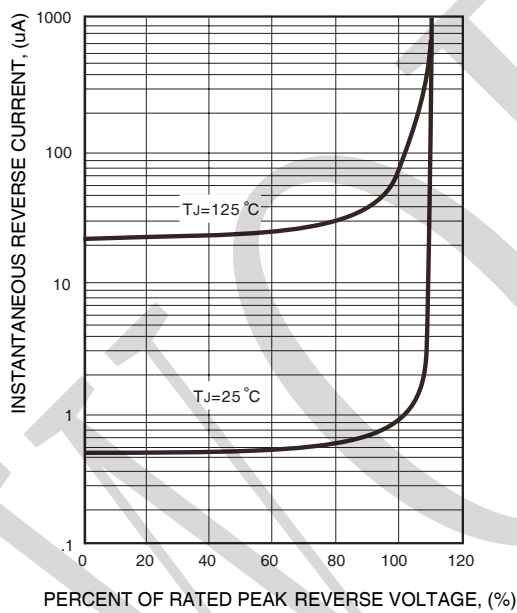
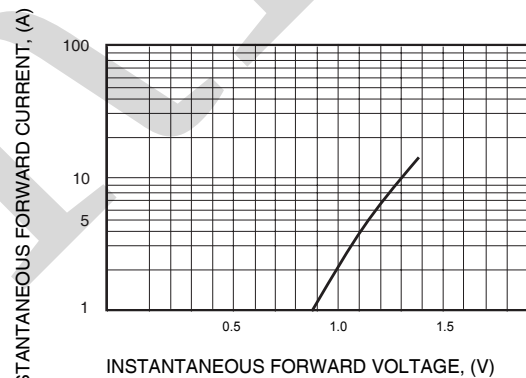
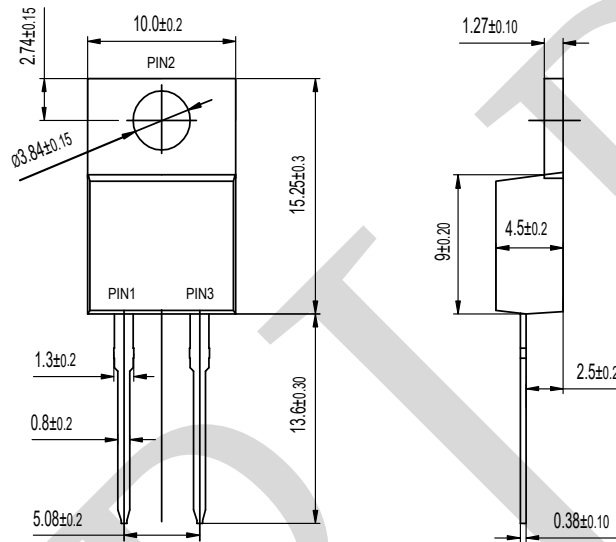


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

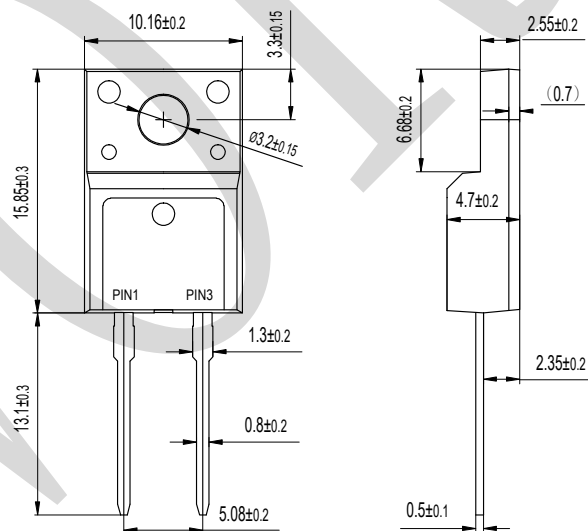


PACKAGE OUTLINE DIMENSIONS

Note:unit mm

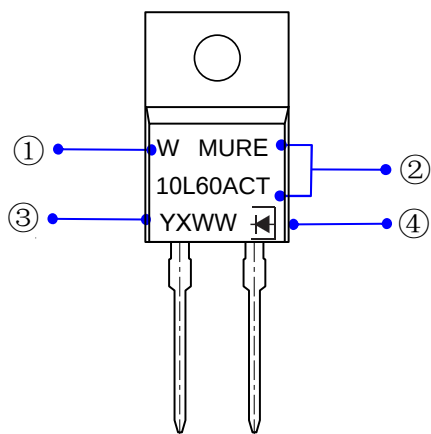


TO-220AC Dimensions in millimeters



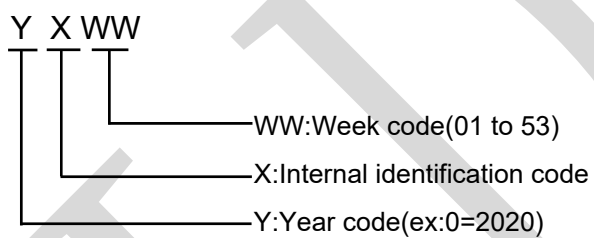
TO-220ACF Dimensions in millimeters

Marking Information



- ①W : Company's trademark
- ②Product model : MURE10L60ACT or MURE10L60ACF

③PDC information:



- ④  Single wafer