

Epitaxial Superfast Recovery Rectifier

MURE860ACT
TO-220ACT



MURE860ACF
TO-220ACF



PIN1  PIN2

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	MURE860ACT	MURE860ACF	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)	8.0		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	85		A
I ² t rating for fusing (1ms< t < 10ms)	I ² t	29.9		A ² S
Instantaneous Forward Voltage per Diode@TA=25 °C	VF	Typ	Max	V
		IF=2A	--	
		IF=8A	1.60	
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	3	°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 - TYPICAL FORWARD CURRENT DERATING CURVE

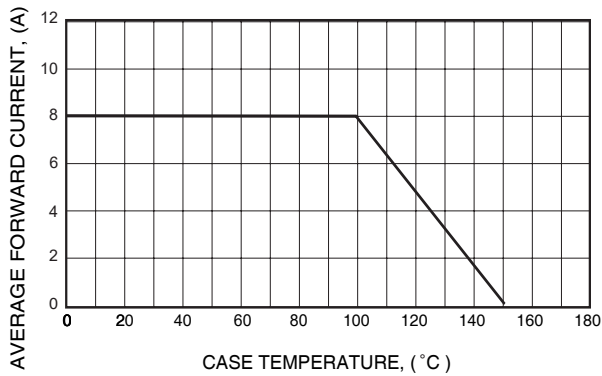


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

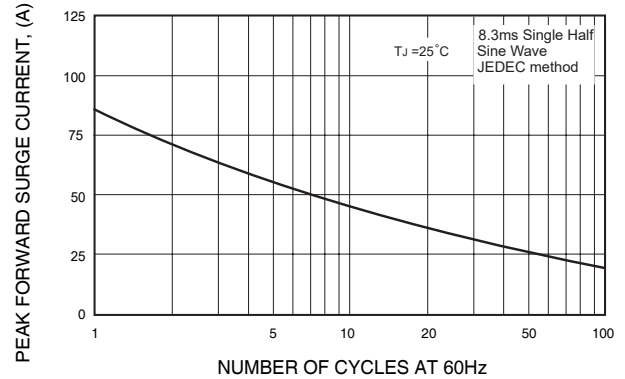


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

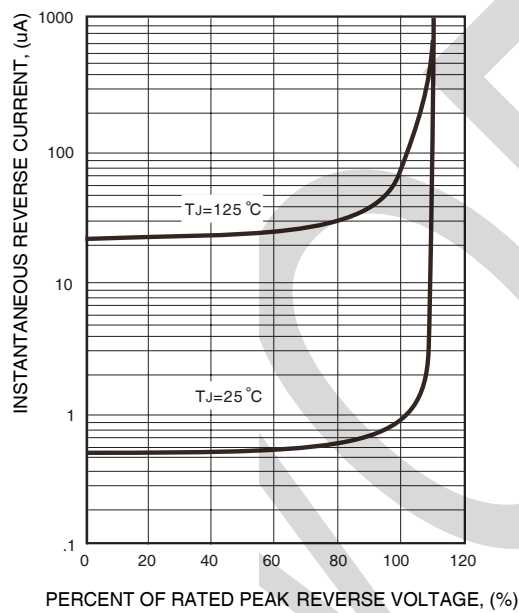
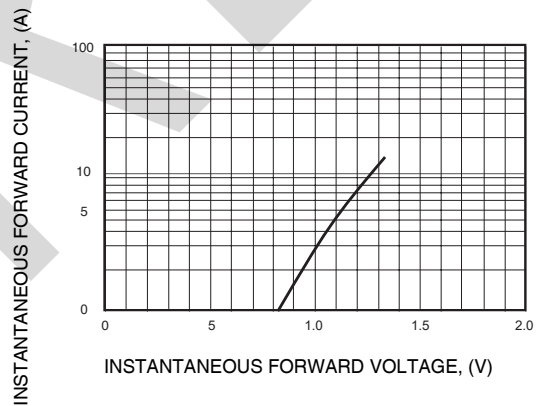
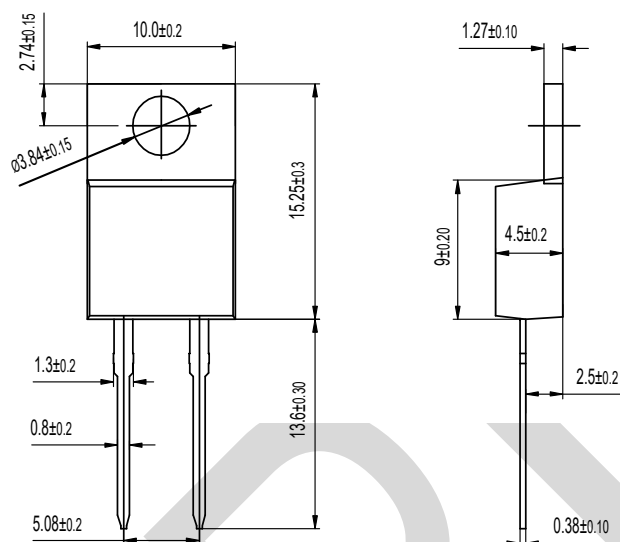


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

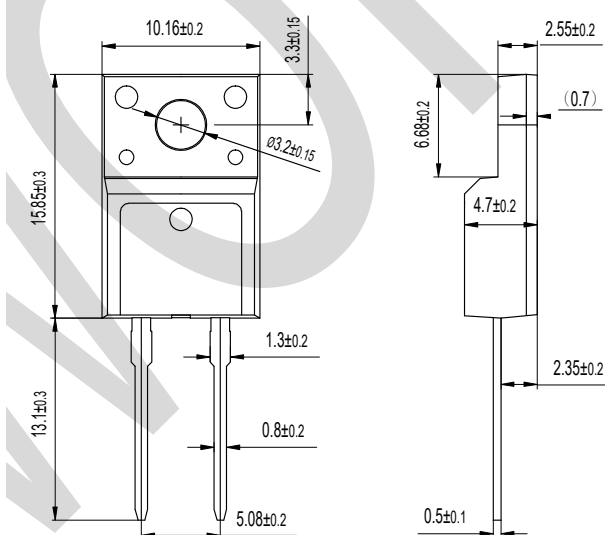


PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

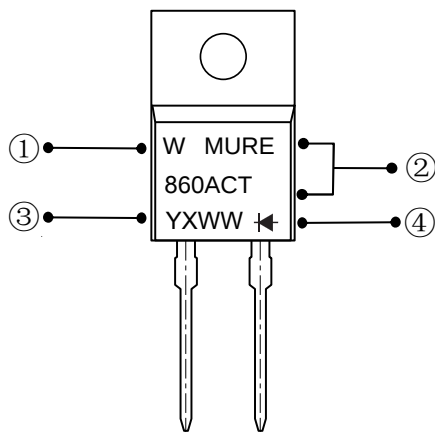


TO-220ACT Dimensions in millimeters

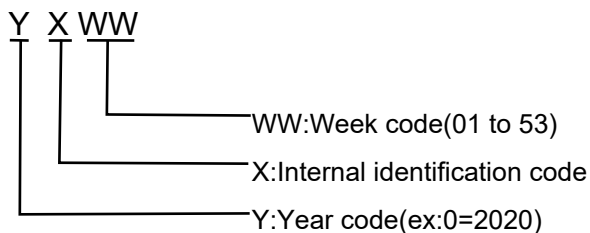


TO-220ACF Dimensions in millimeters

Marking Information



- ①W : Company's trademark
- ②Product model : MURE860ACT or MURE860ACF
- ③PDC information:



- ④ ◀ Single wafer