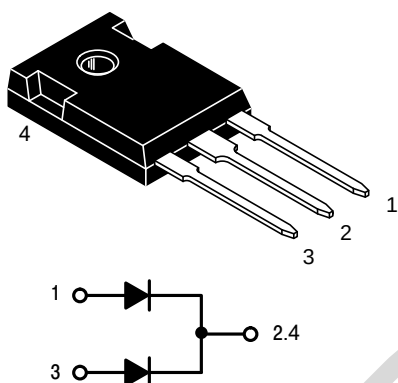


Superfast Recovery Rectifier

TO-247AD
MURE3060PT



Features

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

Mechanical Data

- Epoxy: UL 94V-O rate flame retardant
- Lead: lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Popular : TO-247 Package

Parameter		Symbols	MURE3060PT	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	per device	I(AV)	30	A
	per diode		15	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	300	A
I ² t rating for fusing (1ms< t < 8.3 ms)		I ² t	373.5	A ² S
Maximum Forward Voltage at 15A and 25 °C		VF	1.7	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=100 °C		IR	5 500	μA
Typical Junction Capacitance (Note1)		Cj	50	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 - TYPICAL FORWARD CURRENT DERATING CURVE

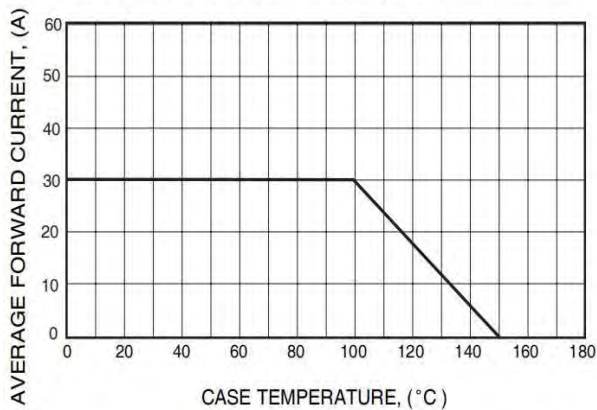


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

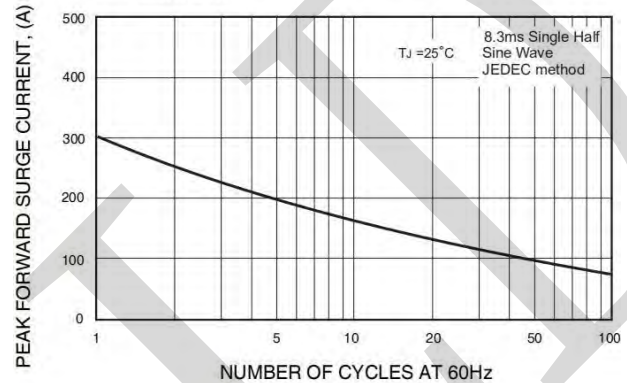


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

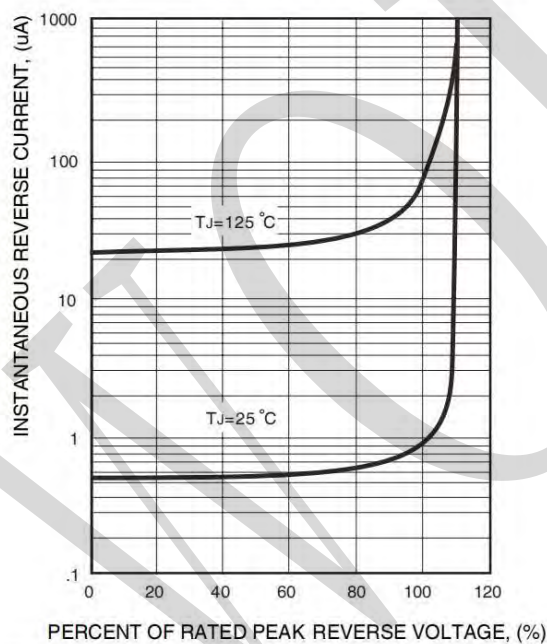
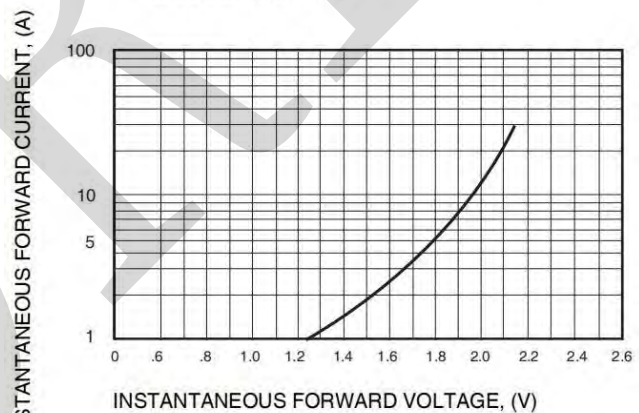


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

TO-247AD

Note: unit (mm)

