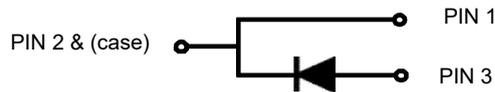
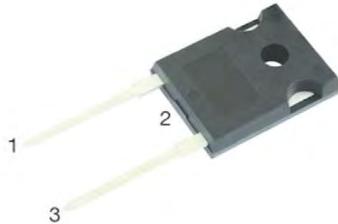


## Epitaxial Superfast Recovery Rectifier

**TO-247AC**  
**MURE3060APT**



### Features

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

### Mechanical Data

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

### ■ Maximum Ratings (T<sub>a</sub>=25°C Unless otherwise specified)

Parameter	Symbols	MURE3060APT	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 <sub>(AV)</sub>	30.0	A
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	T <sub>rr</sub>	50	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	300	A
I <sup>2</sup> t rating for fusing ( 1ms< t < 8.3 ms)	I <sup>2</sup> t	373	A <sup>2</sup> S
Maximum Forward Voltage at 30A and 25°C	V <sub>F</sub>	1.7	V
Maximum DC Reverse Current @T <sub>A</sub> =25 °C at Rated DC Blocking Voltage @T <sub>A</sub> =125°C	I <sub>R</sub>	10 500	μA
Typical Junction Capacitance (Note1)	C <sub>j</sub>	85	pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-50 ~ +150	°C
Typical thermal resistance (Note 2)	R <sub>thJC</sub>	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/ft<sup>2</sup> 20x20 mm copper pad per pin with heatsink

## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG1:Io -Tc Curve

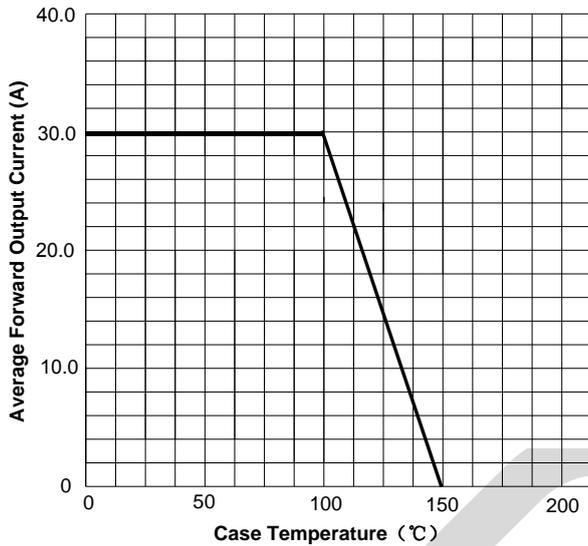


FIG2: Surge Forward Current Capability

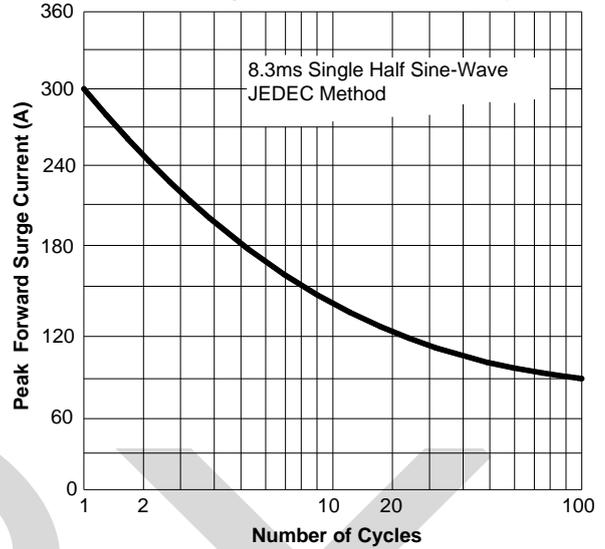


FIG3: Forward Voltage

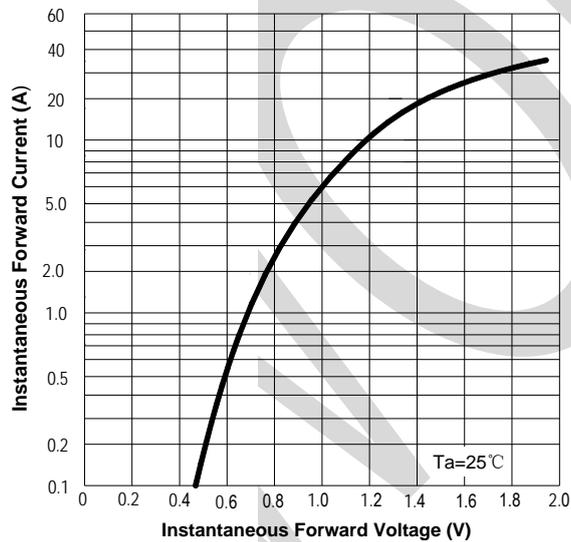
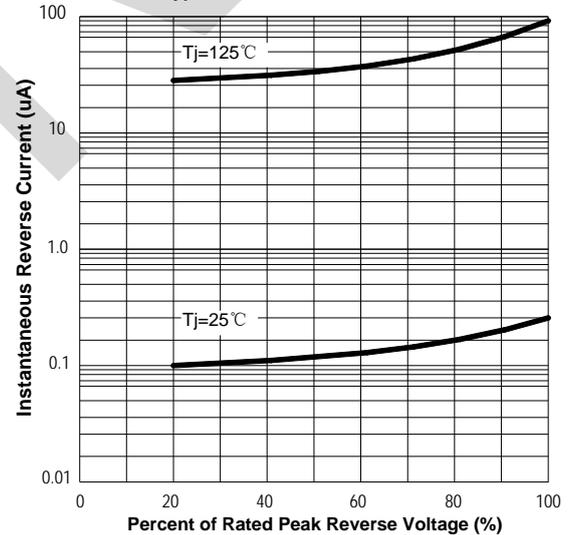


FIG4: Typical Reverse Characteristics



## PACKAGE OUTLINE DIMENSIONS

Note:unit mm

