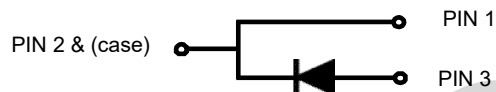


Epitaxial Superfast Recovery Rectifier

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 (Ta=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(AV)	30.0	A
Reverse Recovery Time. IF=0.5A, IR=1A, IRR=0.25A	Trr	50	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	A ² S
Maximum Forward Voltage at 30A and 25°C	VF	1.7	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125°C	IR	10 500	μA
Typical Junction Capacitance (Note1)	Cj	85	pF
Operating and Storage Temperature Range	Tj, Tstg	-50 ~ +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)

FIG1: Io - Tc Curve

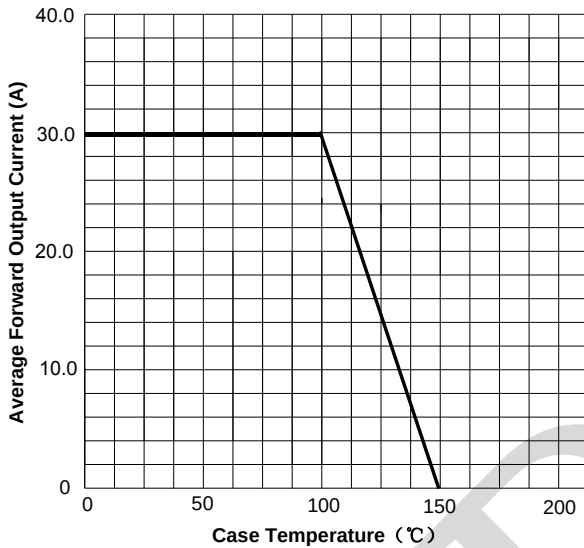


FIG2: Surge Forward Current Capability

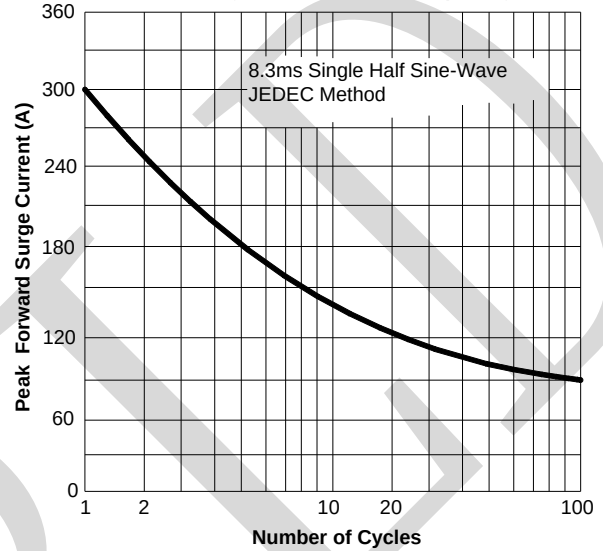


FIG3: Forward Voltage

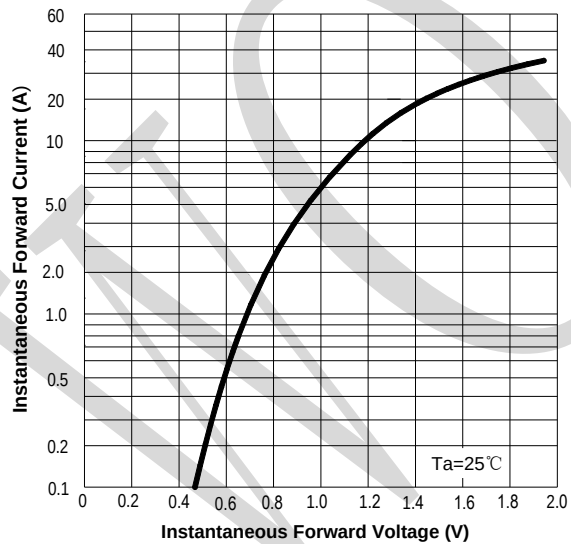
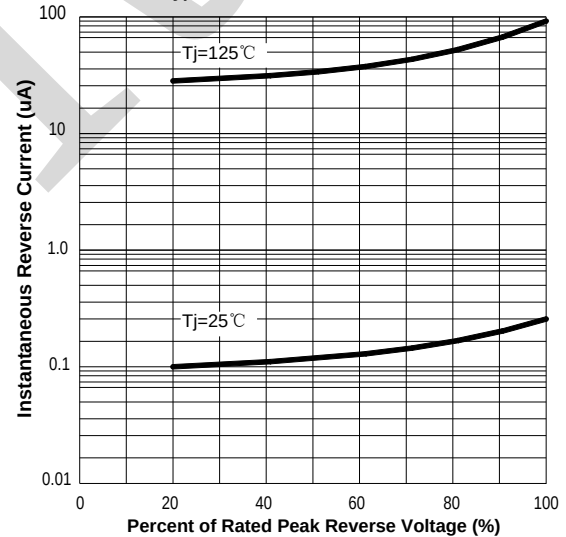


FIG4: Typical Reverse Characteristics



Note:unit mm

