

MUR6020PT THRU MUR6060PT

POLYIMIDE PASSIVATED SUPER FAST RECTIFIER Reverse Voltage - 200-600 Volts Forward Current - 60.0Amperes

TO-247

FEATURES

- Fred Chip Planar Construction
- Super Fast Switching, High Efficiency
- Low Power loss, High Efficiency
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-0

MECHANICAL DATA

- Case: TO-247AB, Molded Plast
- Terminals:Pure tin Plated ,Lead free Solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting Position:Any

TYPICAL APPLICATIONS

 For use in High Frequency Rectifier of Switching Mode Power Supplies, Freewheeling Diode, DC/DC Converters or polarity Protection Application



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics @ T₁ =25°C unless otherwise specified

(Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameters	Symbol	MUR6020PT	MUR6030PT	MUR6040PT	MUR6060PT	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	V
Maximum Average Forward (See Figure 1)	I _{F (AV)}	60				А
Peak Forward Surge Current : 8.3ms single half si ne-wave superimposed on rated load(JEDEC method,Total device)	I _{FSM}	350				A
Maximum Forward Voltage at 30A per leg (Note2)	V _F	1.05	1.35		1.70	V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltag T _J =125°C	I _R	5 50				μΑ
Maximum Reverse Recovery Time (Measured With IF=0.5A, IR=1.0A,IRR=0.25A)	Trr	35	35 50			nS
Typical Thermal Resistance (Note1)	R _{θJC}	1.0				°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +175				°C

Note: (1).Thermal resistance from junction to case

(2).Pulse test:300us pulse width,1% duty cycle



RATINGS AND CHARACTERISTIC CURVES OF MUR6020PT THRU MUR6060PT



Fig-2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



Fig-3 TYPICAL REVERSE CHARACTERISTICS



Fig-4 MAXIMUM NON-REPETITIVE SURGE CURRENT





Friendship Reminder

■ JiNan JingHeng (hereinafter referred to as JH) reserves the right to make changes to this document and its products and specifications at anytime without notice.

Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

■ JH makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does JH assume any liability for application assistance or customer product design.

JH does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of JH.

JH's products are not authorized for use as critical components in life support devices or systems without express written approval of JH.