Zibo Seno Electronic Engineering Co., Ltd.



MUR3020PT – MUR3060PT





30.0A GLASS PASSIVATED SUPERFAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

 Case: TO-3P/TO-247AD, Molded Plastic
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

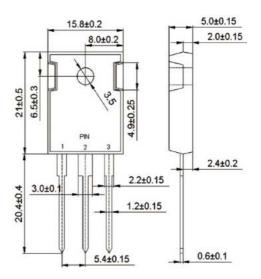
Polarity: See Diagram

Weight: 5.6 grams (approx.)

Mounting Position: Any

Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
 Lead Free: For RoHS / Lead Free Version

TO-3P/TO-247AD



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

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

Characteristic		Symbol	MUR3020PT	MUR3040PT	MUR3060PT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	200	400	600	V
RMS Reverse Voltage		VR(RMS)	140	280	420	V
Average Rectified Output Current @T _C = 125°C		lo		30.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	350			А
Forward Voltage	@I _F =15.0A	VFM	0.98	1.3	1.7	V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	10 400		μΑ	
Reverse Recovery Time (Note 1)		trr	50		nS	
Typical Junction Capacitance (Note 2)		Cj	170 130		pF	
Operating and Storage Temperature Range		Tj, Tstg	-55 to +150			°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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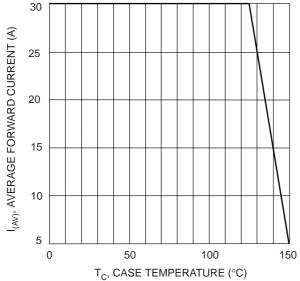
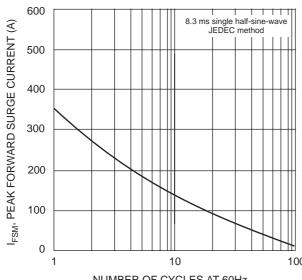
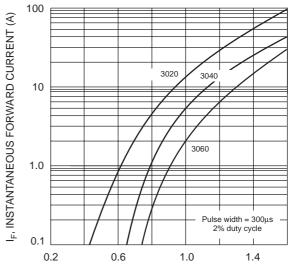


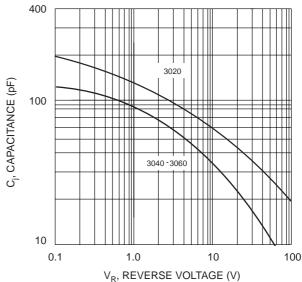
Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Junction Capacitance