30.0A GLASS PASSIVATED SUPERFAST RECTIFIER

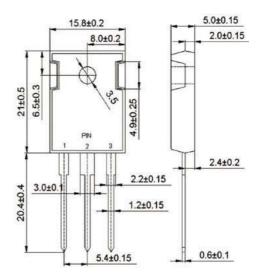
Features

- 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	KMUR3020PT	KMUR3040PT	KMUR3060PT	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	٧
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)	Ігѕм	350			А
Forward Voltage @I _F =15 .0A	VFM	0.98	1.3	1.6	٧
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	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	Тј, Тѕтс	-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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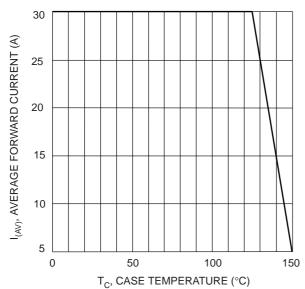
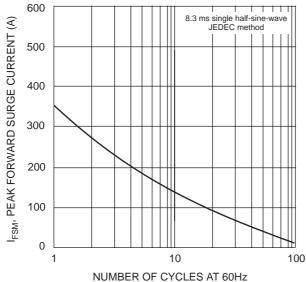
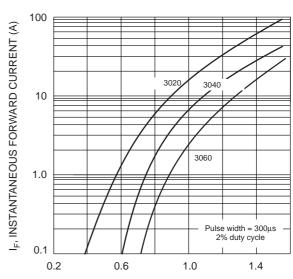


Fig. 1 Forward Current Derating Curve



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



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

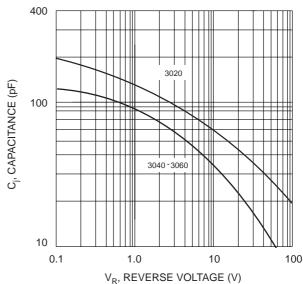


Fig. 4 Typical Junction Capacitance

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