30.0A GLASS PASSIVATED SUPERFAST RECTIFIER

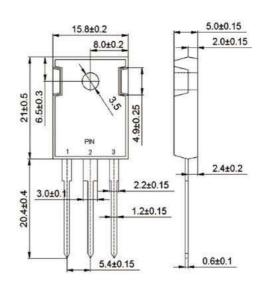
Features:

- 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 @T_A=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 $@T_c = 125^{\circ}C$	lo	30.0			А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	350			A
Forward Voltage @I _F =15.0A	Vfm	0.98	1.3	1.6	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 400			μA
Reverse Recovery Time (Note 1)	trr	50			nS
Typical Junction Capacitance (Note 2)	Cj	170 130		pF	
Operating and Storage Temperature Range	Тj, Tsтg	-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.



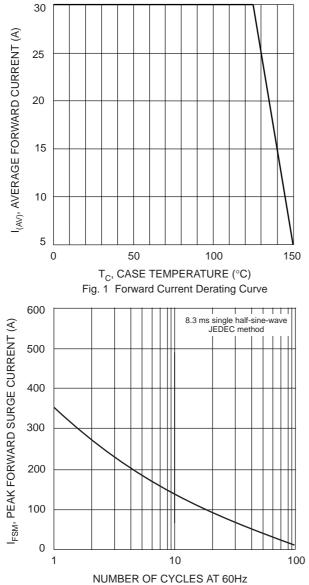


Fig. 3 Max Non-Repetitive Surge Current

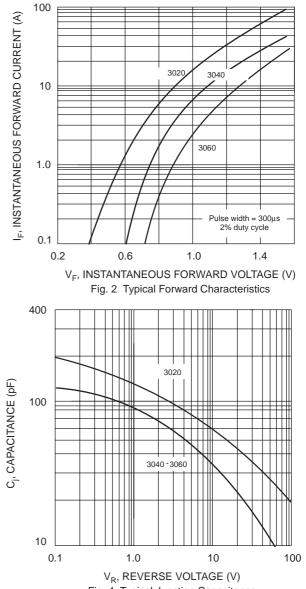


Fig. 4 Typical Junction Capacitance