



LT6A01 - LT6A07

6.0A RECTIFIER

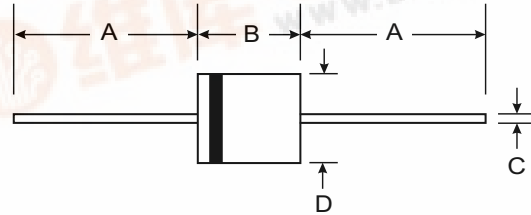
INACTIVE, NOT FOR NEW DESIGN, USE 6A05 - 6A10

Features

- Diffused Junction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 400A Peak
- Low Reverse Leakage Current
- Plastic Material - UL Flammability Classification 94V-0

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx)
- Marking: Type Number



R-6		
Dim	Min	Max
A	25.40	—
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10
All Dimensions in mm		

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	6A01	6A02	6A03	6A04	6A05	6A06	6A07	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}									
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V _R									
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V	
Average Rectified Output Current (Note 1)	I _O	6.0							A	
		@ T _A = 60°C								
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					400				A
Forward Voltage	V _{FM}					1.0				V
		@ I _F = 6.0A								
Peak Reverse Current	I _{RM}					10				μA
		@ T _A = 25°C								
		@ T _A = 100°C								
Typical Junction Capacitance (Note 2)	C _j					140	70		pF	
Typical Thermal Resistance Junction to Ambient	R _{θJA}					15				K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150							°C	

- Notes:
1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



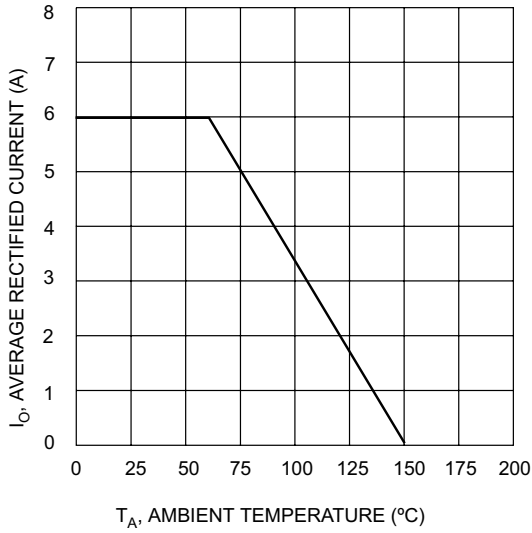


Fig. 1 Forward Current Derating Curve

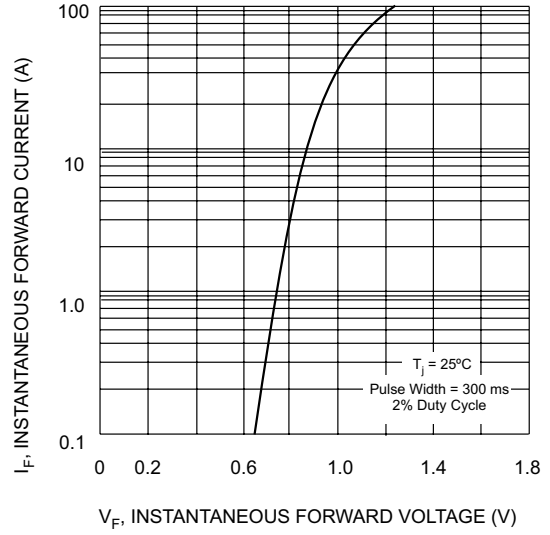


Fig. 2 Typical Forward Characteristics

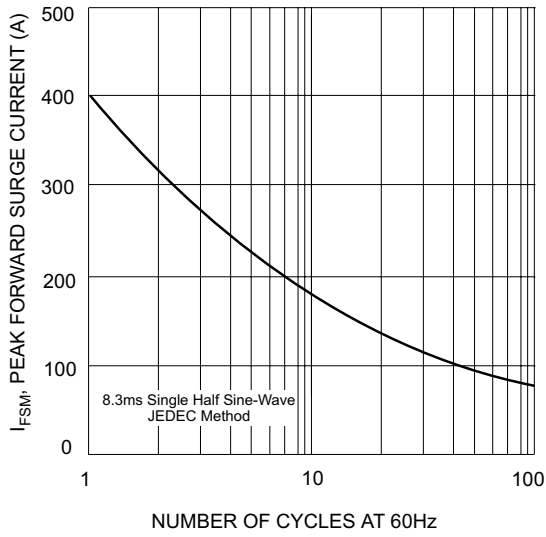


Fig. 3 Maximum Non-Repetitive Peak Forward Surge Current

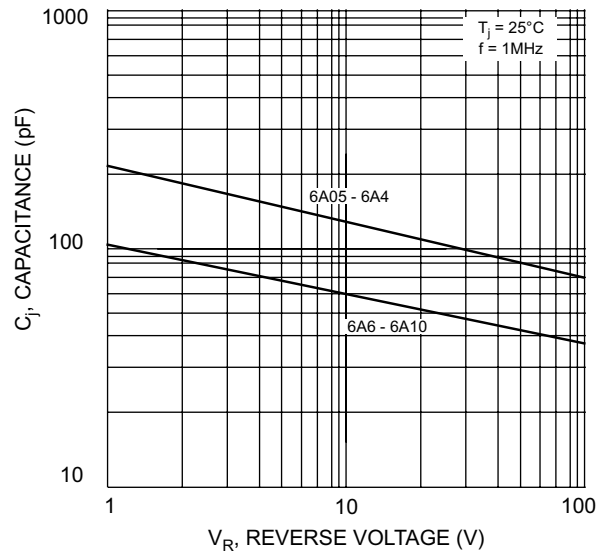


Fig. 4 Typical Junction Capacitance

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