

6A05G THRU 6A10G

6.0 AMPS. Glass Passivated Rectifiers

Features

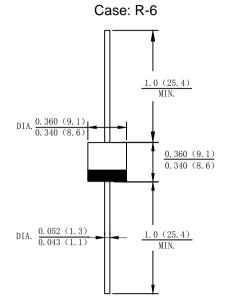
- · Low forward voltage drop
- · High current capability
- · High reliability
- · High surge current capability
- · Plastic material-UL flammability 94V-0

Mechanical Data

- · Case: Molded plastic R-6
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- · Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @T _L =100°C	IF(AV)	6.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	200							А
I ² t Rating for Fusing (t < 8.3ms)	l²t	166							A^2s
Forward Voltage @IF=6.0A	V _{FM}	1.1							V
Peak Reverse Current @T _A =25°C	· I _R	5.0 100							uA
At Rated DC Blocking Voltage @T _A =125°C	IR IR								
Typical Junction Capacitance (Note 2)	Сл	90							pF
Typical Thermal Resistance Junction to Ambient(Note 1)	RөJA	35							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							${\mathbb C}$

Note: 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 D.C

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FIG. 1 – FORWARD CURRENT DERATING CURVE

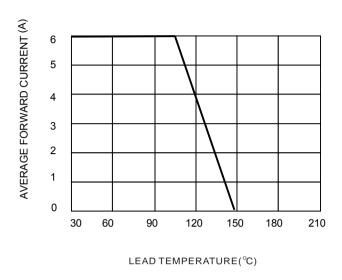
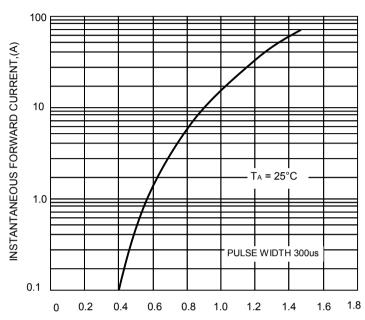


FIG.2-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

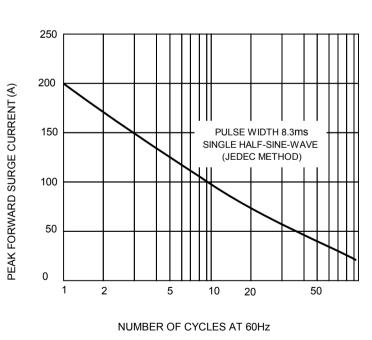
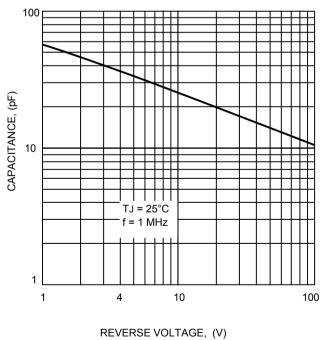


FIG.4 - TYPICAL JUNCTION CAPACITANCE



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