

## 6A05G - 6A100G







### **Features**

- Glass passivated chip junction.
- $\diamondsuit$ High efficiency, Low VF
- $\diamondsuit$ High current capability
- High reliability
- High surge current capability
- Low power loss

### **Mechanical Data**

- Cases: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260 °C /10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension
- Weight: 1.65 grams

# .280 (7.2) 1.0 (25.4) 360 (9.1) 340 (8.6) 1.0 (25.4) .048 (1.2 DIA.

Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	6A 05G	6A 10G	6A 20G	6A 40G	6A 60G	6A 80G	6A 100G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @T <sub>A</sub> = 50 °C	I <sub>(AV)</sub>	6.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250						Α	
Maximum Instantaneous Forward Voltage @6.0A	V <sub>F</sub>	1.1 1.0						V	
Maximum DC Reverse Current @ $T_A$ =25 °C at Rated DC Blocking Voltage @ $T_A$ =125 °C	I <sub>R</sub>	10 100							uA uA
Typical Junction Capacitance ( Note 1)	Cj	60							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	35							°C/W
Operating and Storage Temperature Range	$T_J, T_{STG}$	- 65 to + 150							°C

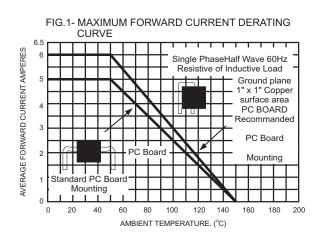
1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C. Notes:

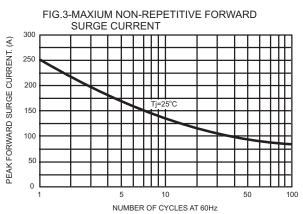
2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.

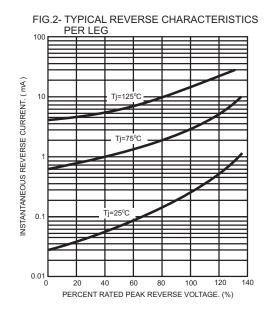
Version: A06



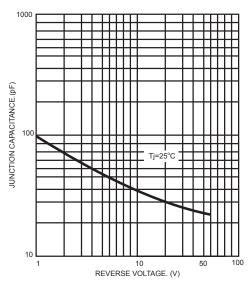
### RATINGS AND CHARACTERISTIC CURVES (6A05G THRU 6A100G)



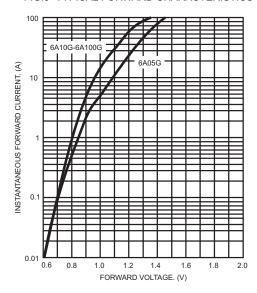












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