

# 6A05G - 6A100G

## 6.0 AMPS. Glass Passivated Rectifiers

### R-6

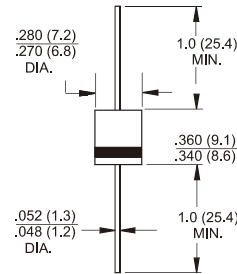


### Features

- ✧ Glass passivated chip junction.
- ✧ High efficiency, Low VF
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability
- ✧ Low power loss
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

### 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



Dimensions in inches and (millimeters)

Marking Diagram



- 6AXXG = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

### 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 <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	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>F(AV)</sub>	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	250							A
Maximum Instantaneous Forward Voltage @6.0A	V <sub>F</sub>	1.1	1.0					V	
Maximum DC Reverse Current at @ T <sub>A</sub> =25°C Rated DC Blocking Voltage (Note 1) @ T <sub>A</sub> =125°C	I <sub>R</sub>	10			100				uA
Typical Junction Capacitance ( Note 3)	C <sub>j</sub>	60							pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	35							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 65 to + 150							°C

- Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle  
 2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.  
 3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Version: C10

RATINGS AND CHARACTERISTIC CURVES (6A05G THRU 6A100G)

