

6A05G THRU **6A100G**

6.0 AMPS. Glass Passivated Rectifiers

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Voltage Range 50 to 1000 Volts Current 6.0 Amperes

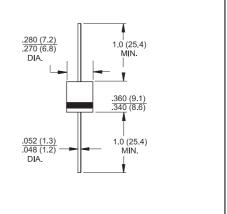
R-6

Features

- Low forward voltage drop
- High current capability
- ♦ High reliability
- High surge current capability

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202. Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- → 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)

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%

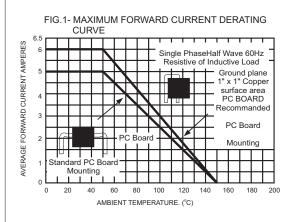
Type Number	Symbol	6A 05G	6A 10G	6A 20G	6A 40G	6A 60G	6A 80G	6A 100G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified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

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

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



RATINGS AND CHARACTERISTIC CURVES (6A05G THRU 6A100G)



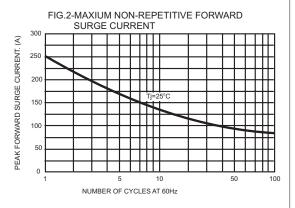


FIG.3- TYPICAL FORWARD CHARACTERISTICS

