

6A05G THRU 6A10G

GLASS PASSIVATED SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

$\begin{array}{c|c} \mathbf{R-6} \\ \hline \\ 0.360 (9.1) \\ 0.340 (8.6) \\ D|A \\ \hline \\ 0.049 (1.2) \\ 0.049 (1.2) \\ D|A \\ \hline \\ 0.045 (1.3) \\ 0.045 (1.2) \\ \hline \\ 0.045 (1.3) \\ \hline \\ 0.045 (1$

Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: R-6 molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.072 ounce, 2.05 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

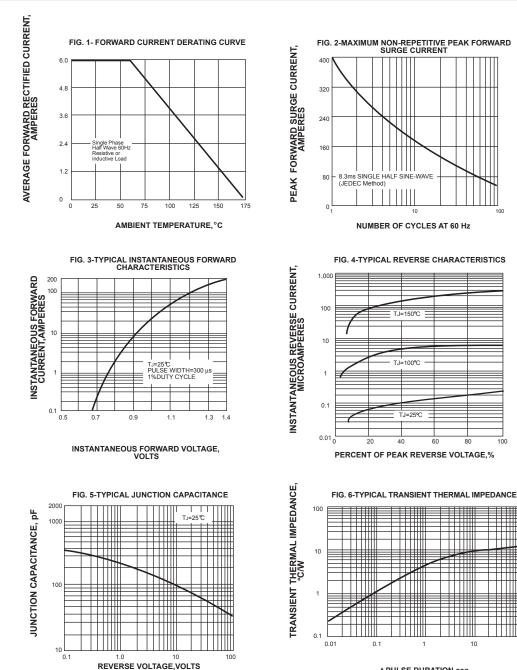
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375″(9.5mm) lead length at Ta=60°C	l(AV)	I(AV) 6.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	300						Amps	
Maximum instantaneous forward voltage at 6.0A	Vf	0.95							Volts
Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=100°C	lr	lR 10.0 400							μA
Typical junction capacitance (NOTE 1)	CJ	150						pF	
Typical thermal resistance (NOTE 2)	Reja	10.0						°C/W	
Operating junction and storage temperature range	Тј,Тѕтс	-65 to +175						°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES 6A05G THRU 6A10G



t.PULSE DURATION.sec.

100