

6A05G THRU 6A100G

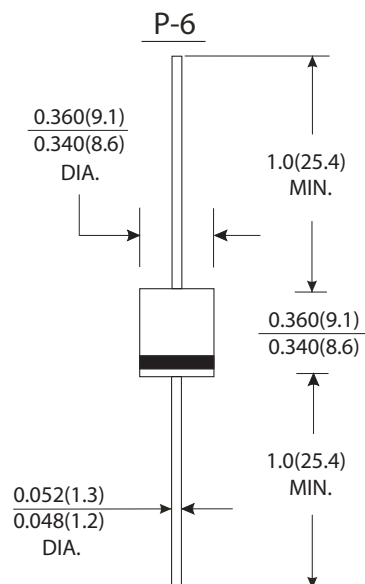
CURRENT 6.0 Amperes
VOLTAGE 50 to 1000 Volts

Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High current capability
- Low reverse leakage
- Glass passivated junction
- Low forward voltage drop
- High temperature soldering guaranteed : 350 °C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs, (2.3kg) tension

Mechanical Data

- Case : P-6 molded plastic body
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.007 ounce, 2.1 gram



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, derate by 20%)

		Symbols	6A05G	6A10G	6A20G	6A40G	6A60G	6A80G	6A100G	Units
Maximum recurrent peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (see Fig.1)		I(AV)	6.0							Amps
Peak forward surge current 8.3ms half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	400.0							Amps
Maximum instantaneous forward voltage at 6.0A		V _F	1.1							Volts
Maximum reverse current at rated DC blocking voltage	T _A =25 °C	I _R	10.0							μA
	T _A =100 °C		100.0							
Typical thermal resistance (Note 2)		R _{θJA}	20.0							°C/W
		R _{θJL}	4.0							
Typical junction capacitance (Note 1)		C _J	150							pF
Operating and storage temperature range		T _J T _{STG}	-50 to +175							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted with 1.1 × 1.1"(30 × 30mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES 6A05G-6A100G

FIG.1-FORWARD CURRENT DERATING CURVE

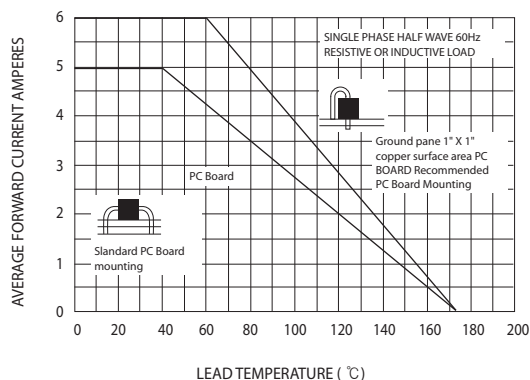


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

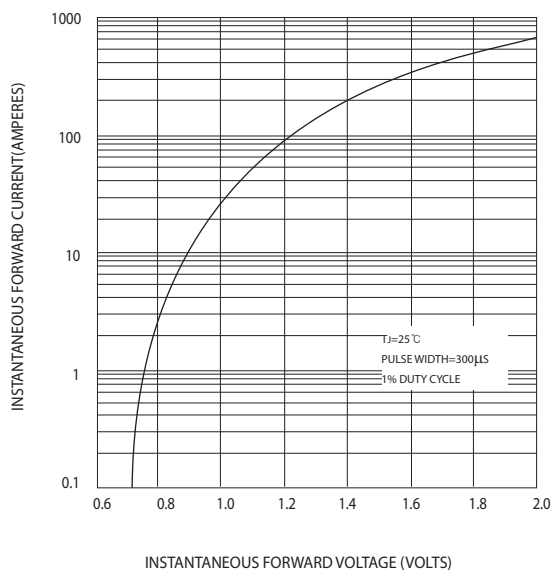


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

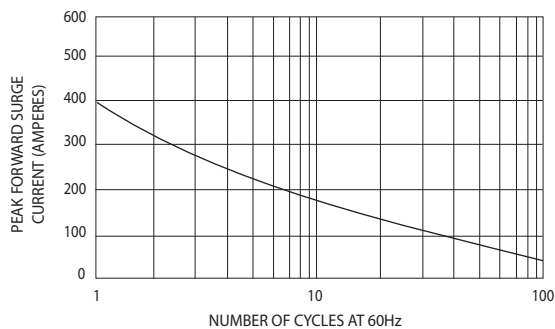


FIG.4-TYPICAL REVERSE CHARACTERISTICS

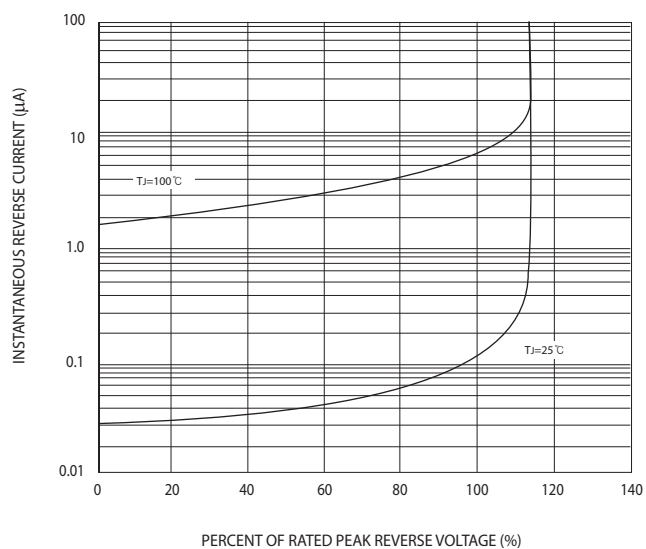


FIG.5-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

