

6A05G THRU 6A100G

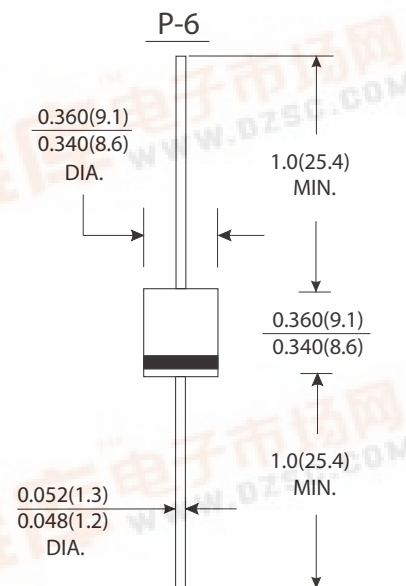
CURRENT 6.0 Amperes
VOLTAGE 50 to 1000 Volts

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



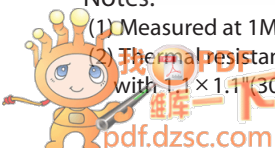
Maximum Ratings And Electrical Characteristics

(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℃	I _R	10.0							μA
	T _A =100℃		100.0							
Typical thermal resistance (Note 2)		R _{θJA}	20.0							℃/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							℃

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

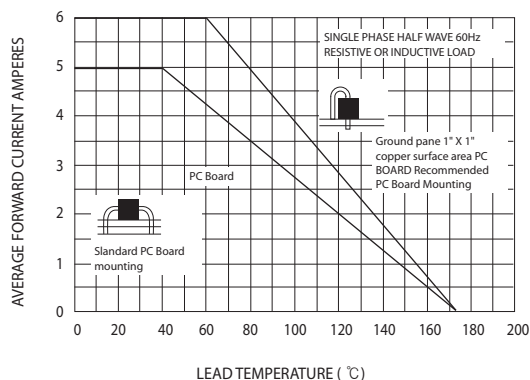


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

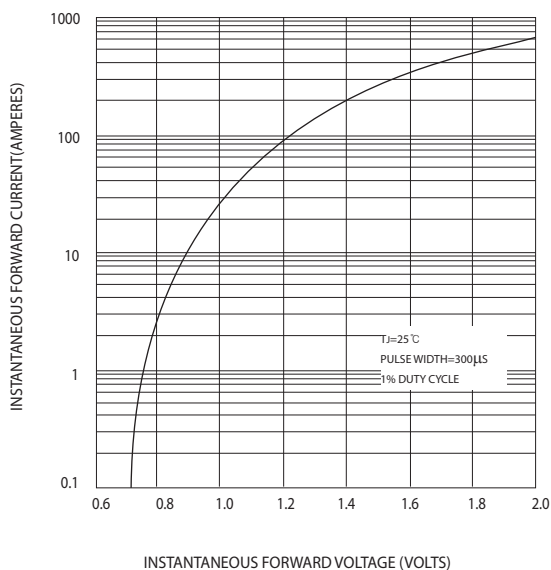


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

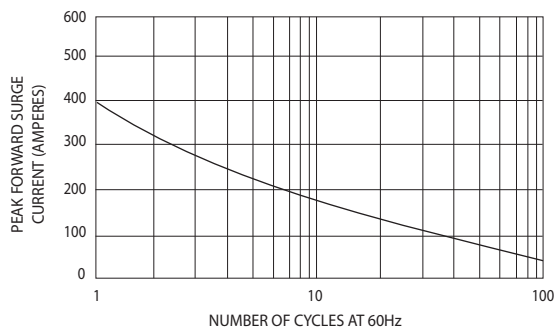


FIG.4-TYPICAL REVERSE CHARACTERISTICS

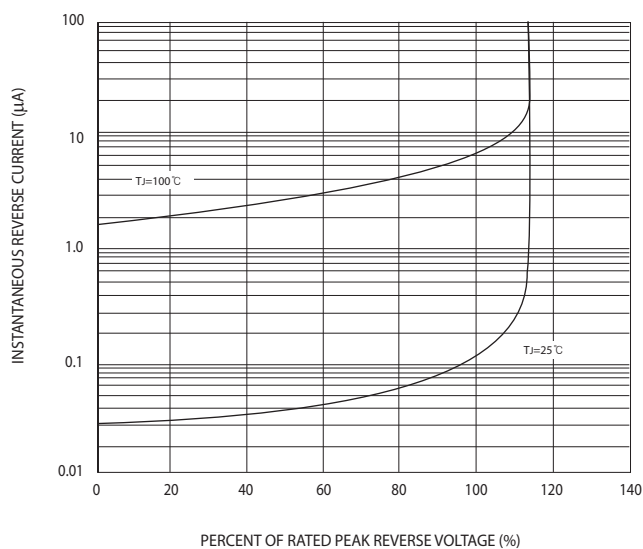


FIG.5-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

