



GAIA TECH

6A05 THRU 6A10

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

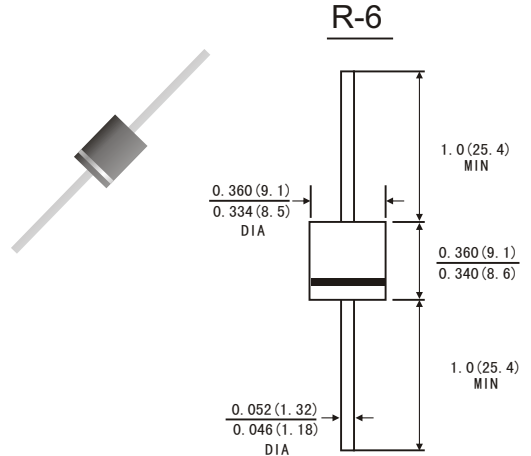
Forward Current -6.0Amperes

FEATURES

- The plastic package carries Underwrites Laboratory
- Flammability Classification 94V-0
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- *Case:* R-6 molded plastic body
- *Terminals:* Plated axial lead, solderable per MIL-STD-750,method 2026
- *Polarity:* Color band denotes cathode end
- *Mounting Position:* Any
- *Weight:* 0.07ounce, 2.1 grams



Dimensions in inches and (millimeters)

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	6A05	6A1	6A2	6A3	6A4	6A6	6A8	6A10	Unis
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length T _A =60°C	I _(AV)	6.0								Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	250.0								Amps
Maximum instantaneous forward voltage at 6.0 A	V _F	0.95								Volts
Maximum reverse current at rated DC blocking voltage	I _R	10.0								μA
		400.0								
Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm) Lead Length @T _A =75°C	HTIR	5.0								μA
Typical thermal resistance (Note 2)	R _{θJA}	35.0								°C/W
Typical junction capacitance (Note 1)	C _J	90								pF
Operating and Storage temperature range	T _J T _{STG}	-65 to+150								°C

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

2.Mounton Cu-Pad Size 16mm×16mm on P. C. B.



RATINGS AND CHARACTERISTIC CURVES 6A05 THRU 6A10

FIG.1-FORWARD CURRENT DERATING CURVE

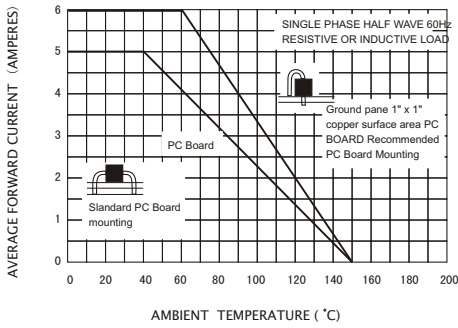


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

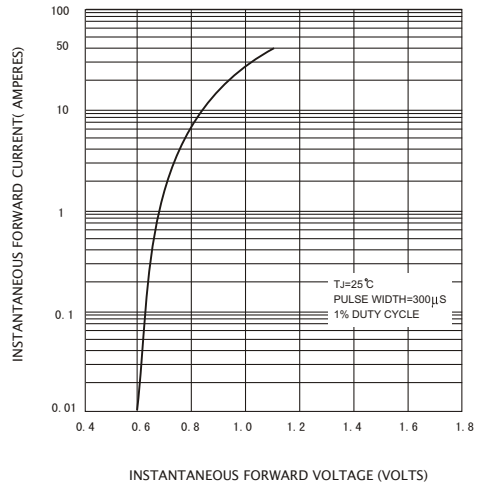


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

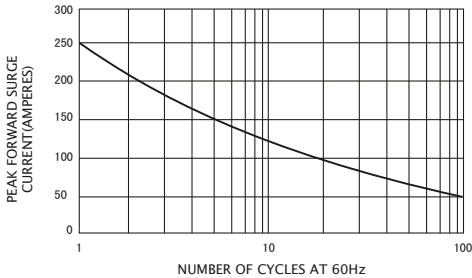


FIG.4-TYPICAL REVERSE CHARACTERISTICS

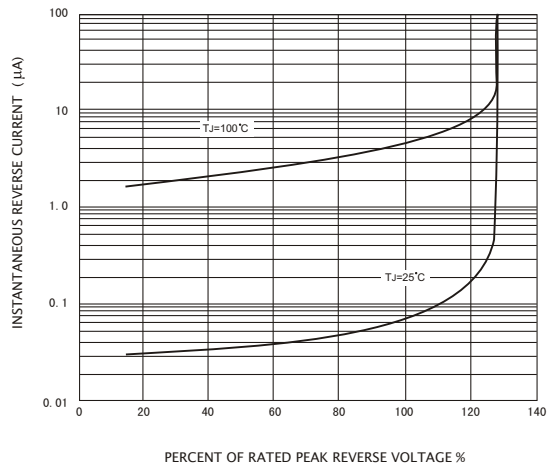


FIG.5-TYPICAL JUNCTION CAPACITANCE

