6A05 THRU 6A10

SEMICONDUCTOR

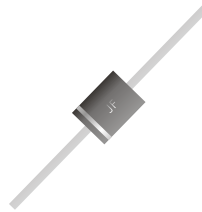
GENERAL PURPOSE PLASTIC RECTIFIER

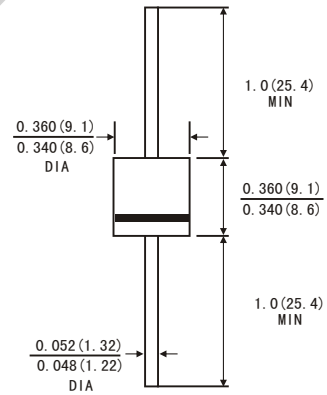
Reverse Voltage - 50 to 1000 Volts
Forward Current -6.0Amperes

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℃/10 seconds at terminals 0.375"(9.5mm) lead length, 5 lbs, (2.3kg) tension
- Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

R-6





Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25℃ 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℃	$I_{(AV)}$	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 T_A=25℃	I_R	10.0								μA
Maximum reverse current at rated DC blocking voltage T_A=100℃		400.0								
Maximum Full Load Reverse Current, Full Cycle Average .375″(9.5mm) Lead Length @T_A=75℃	HTIR	5.0								μA
Typical thermal resistance (Note 2)	$R_{\theta JA}$	35.0								℃/W
Typical junction capacitance (Note 1)	C_J	90								pF
Operating and Storage temperature range	T_J T_{STG}	-65 to+150								℃

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.

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RATINGS AND CHARACTERISTIC CURVES 6A05 THRU 6A10

FIG.1-FORWARD CURRENT DERATING CURVE

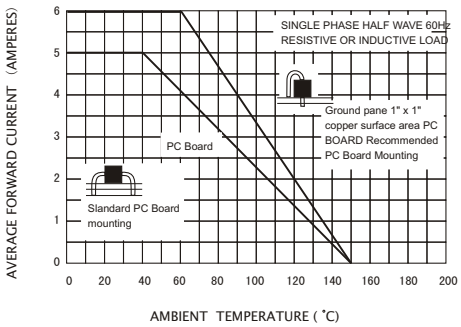


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

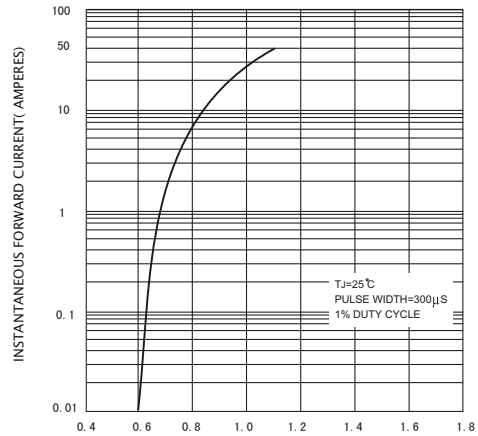


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

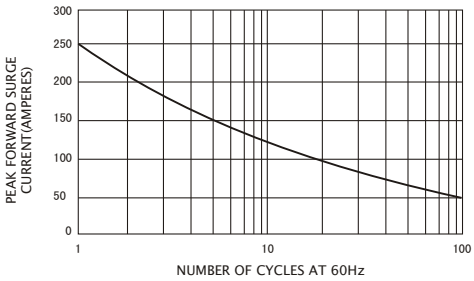


FIG.4-TYPICAL REVERSE CHARACTERISTICS

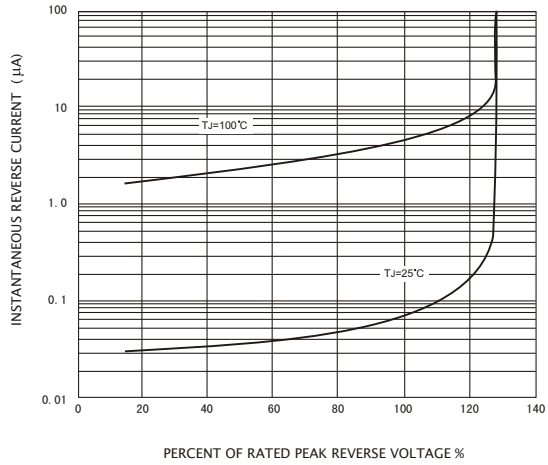
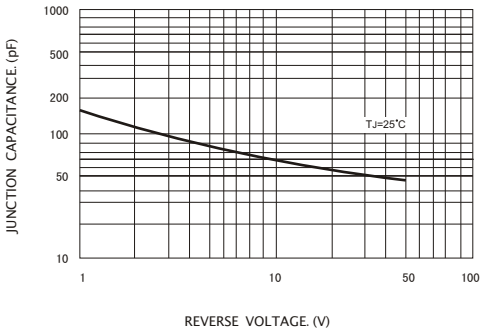


FIG.5-TYPICAL JUNCTION CAPACITANCE



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