

## GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

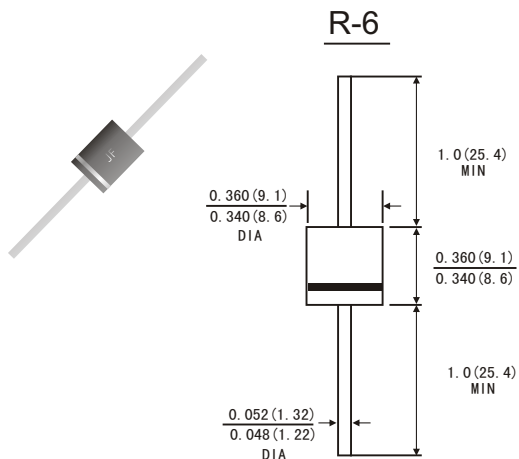
Forward Current -6.0Amperes

### 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  
0.375"(9.5mm) lead length, 5 lbs., (2.3kg) tension
- 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	VRRM	50	100	200	300	400	600	800	1000	Volts	
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	Volts	
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	Volts	
Maximum average forward rectified current 0.375"(9.5mm) lead length TA=60°C	I(AV)	6.0								Amps	
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	IFSM	250.0								Amps	
Maximum instantaneous forward voltage at 6.0 A	VF	0.95								Volts	
Maximum reverse current at rated DC blocking voltage	IR	TA = 25°C	10.0								μA
		TA = 100°C	400.0								
Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm) Lead Length @TA=75°C	HTIR	5.0								μA	
Typical thermal resistance (Note 2)	RθJA	35.0								°C/W	
Typical junction capacitance (Note 1)	CJ	90								pF	
Operating and Storage temperature range	TJ TSTG	-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

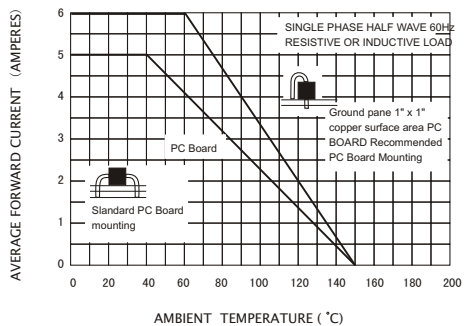


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

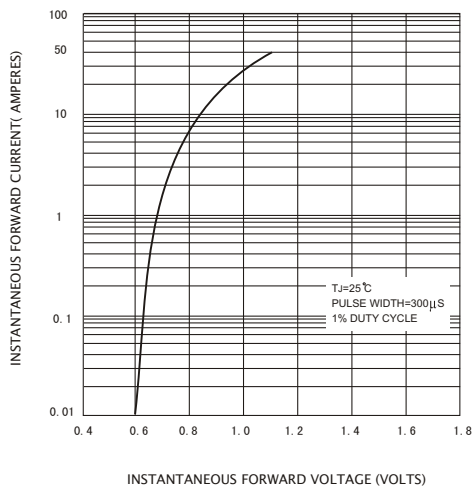


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

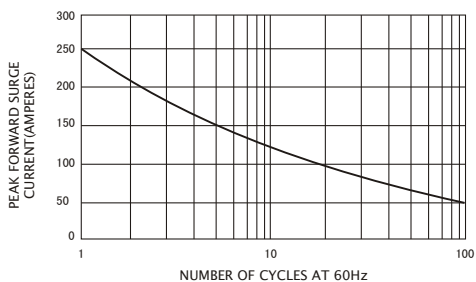


FIG.4-TYPICAL REVERSE CHARACTERISTICS

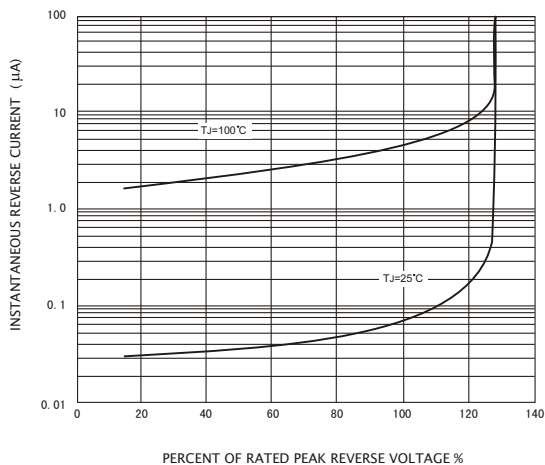


FIG.5-TYPICAL JUNCTION CAPACITANCE

