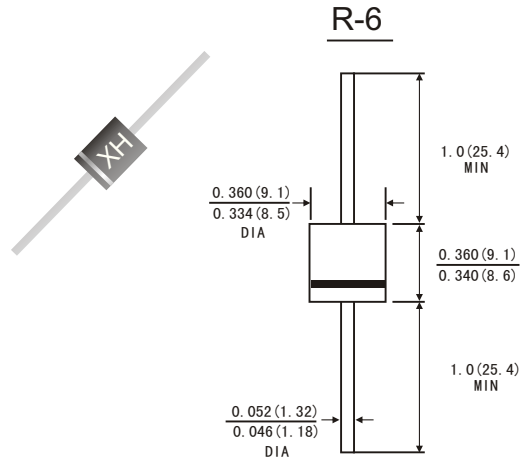


### FEATURES

- 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 <sub>RRM</sub>	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage		V <sub>RMS</sub>	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage		V <sub>DC</sub>	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length T <sub>A</sub> =60°C		I <sub>(AV)</sub>	6.0								Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	250.0								Amps
Maximum instantaneous forward voltage at 6.0 A		V <sub>F</sub>	0.95								Volts
Maximum reverse current at rated DC blocking voltage	T <sub>r</sub> =25 °C	I <sub>R</sub>	10.0								μA
	T <sub>r</sub> =100 °C		400.0								
Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm) Lead Length @T <sub>A</sub> =75°C		HTIR	5.0								μA
Typical thermal resistance (Note 2)		R <sub>θJA</sub>	35.0								°C/W
Typical junction capacitance (Note 1)		C <sub>J</sub>	90								pF
Operating and Storage temperature range		T <sub>J</sub> T <sub>STG</sub>	-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.

## GENERAL PURPOSE PLASTIC RECTIFIER

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



FIG.1-FORWARD CURRENT DERATING CURVE

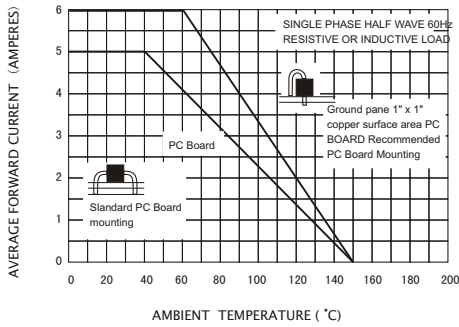


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

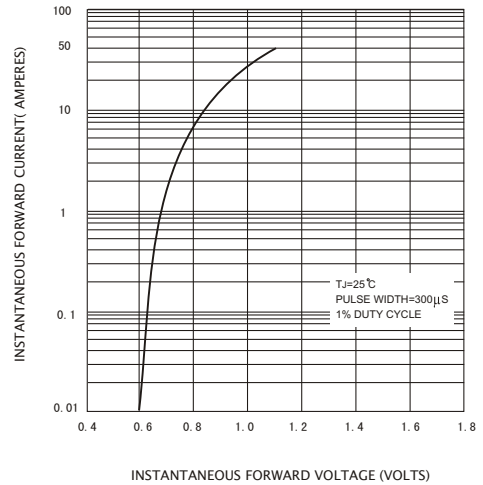


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

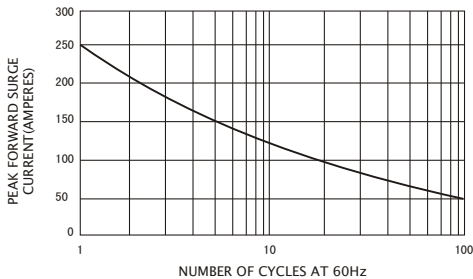


FIG.4-TYPICAL REVERSE CHARACTERISTICS

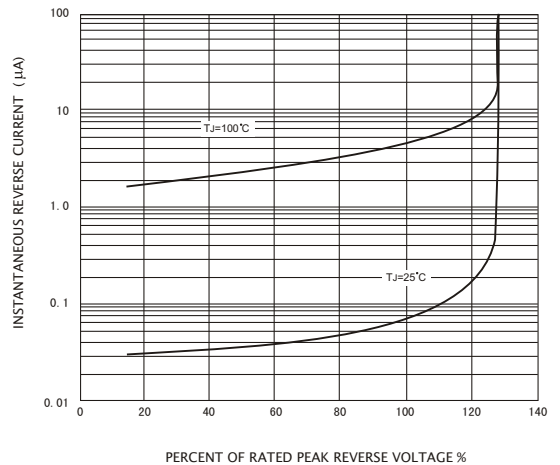


FIG.5-TYPICAL JUNCTION CAPACITANCE

