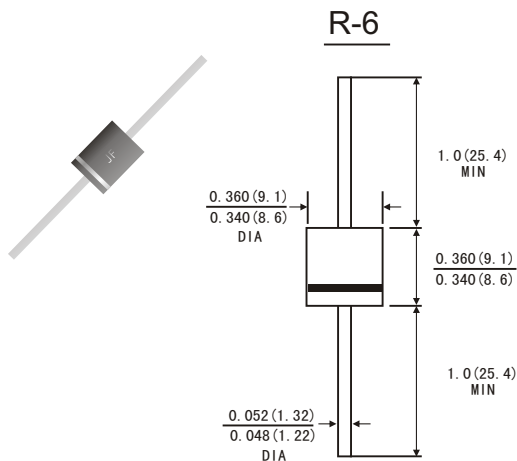


### FEATURES

- 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	10A05	10A1	10A2	10A3	10A4	10A6	10A8	10A10	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>	10.0								Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	500.0								Amps
Maximum instantaneous forward voltage at 10.0 A	V <sub>F</sub>	1.0								Volts
Maximum reverse current at rated DC blocking voltage	I <sub>R</sub>	T <sub>r</sub> = 25°C	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>θJC</sub>	2.5								°C/W
Typical junction capacitance (Note 1)	C <sub>J</sub>	100								pF
Operating and Storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-65 to +175								°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D. C.  
2. Mount on Cu-Pad Size 16mm × 16mm on P. C. B.

# RATINGS AND CHARACTERISTIC CURVES 10A05 THRU 10A10

FIG.1-FORWARD CURRENT DERATING CURVE

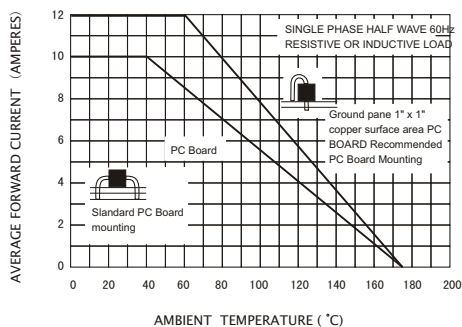


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

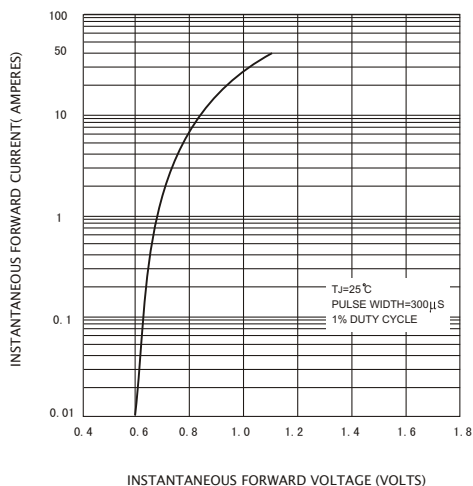


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

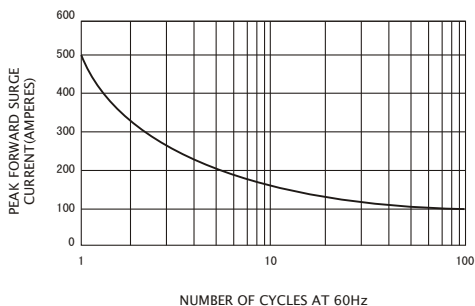


FIG.4-TYPICAL REVERSE CHARACTERISTICS

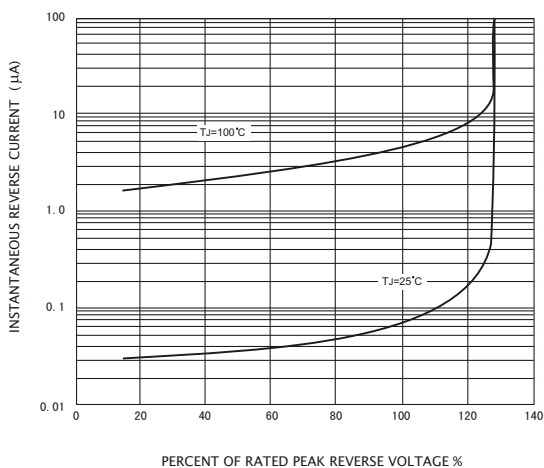


FIG.5-TYPICAL JUNCTION CAPACITANCE

