

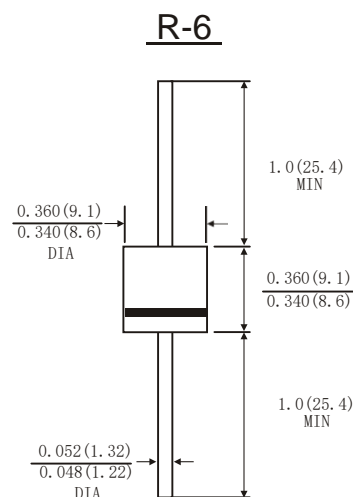
# GLASS PASSIVATED GENERAL PURPOSE PLASTIC RECTIFIER

## Features:

- Glass passivated cavity-free junction
- 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	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)	10.0								Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	IFSM	400								Amps
Maximum instantaneous forward voltage at 10.0 A	VF	1.1								Volts
Maximum reverse current at rated DC blocking voltage	IR	10.0								μA
		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)	RθJC	3.0								°C/W
Typical junction capacitance (Note 1)	CJ	100								pF
Operating junction temperature range at reduced reverse voltage VR<=80%VRRM in DC forward model VR<=50%VRRM	TJ	-65 to+150 -65 to+175 -65 to+200								°C
Storage temperature range	TSTG	-65 to+200								°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 10A05 THRU 10A10

FIG.1-FORWARD CURRENT DERATING CURVE

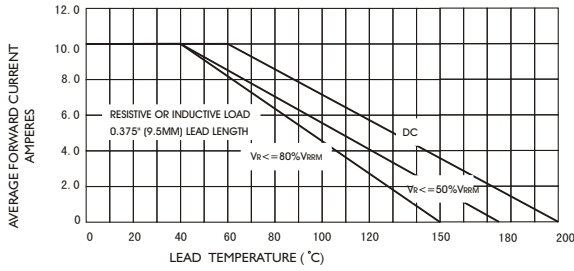


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

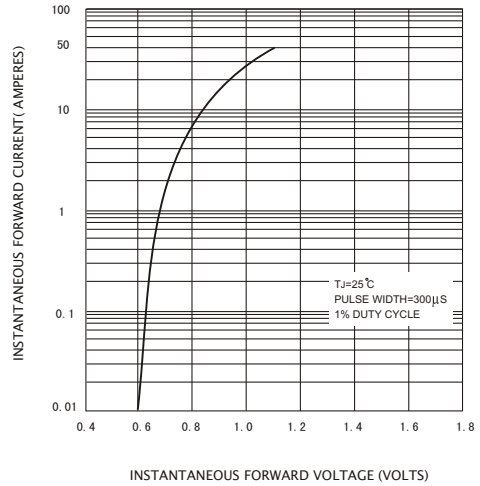


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

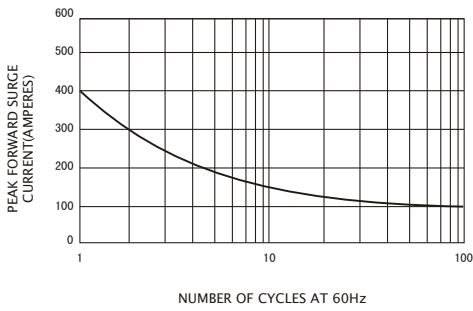


FIG.4-TYPICAL REVERSE CHARACTERISTICS

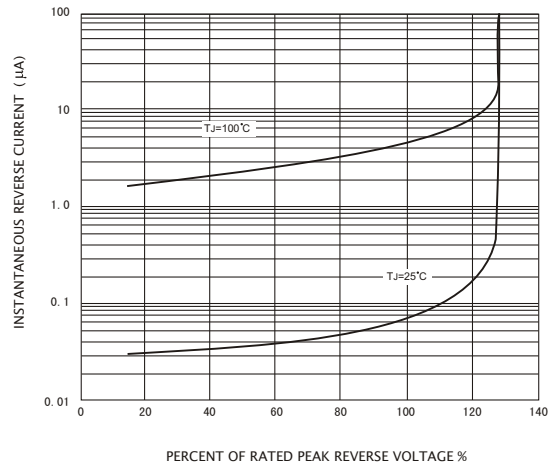


FIG.5-TYPICAL JUNCTION CAPACITANCE

