

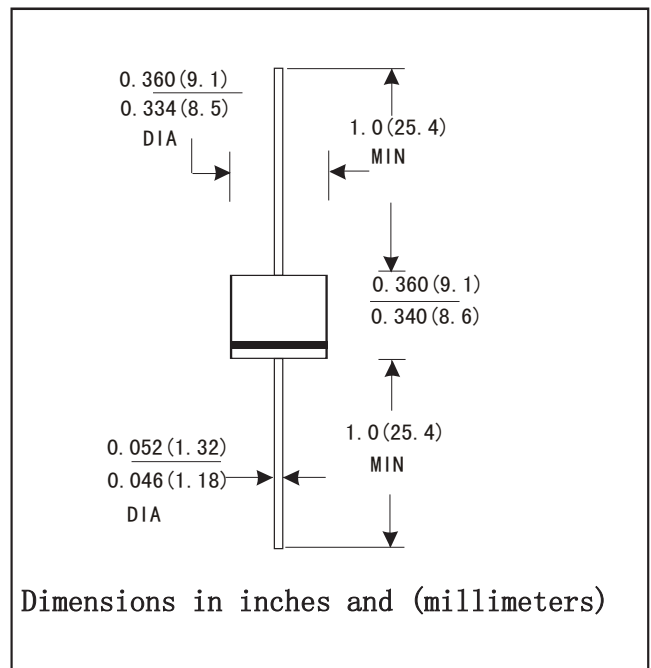
## R-6 PLASTIC SILICON RECTIFIERS

### FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Diffused Junction
- 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 2015/863 and WEEE 2012/19/EU

### MECHANICAL DATA

- Case:R-6 molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$								
Working peak reverse voltage	$V_{RMS}$	50	100	200	400	600	800	1000	V
DC blocking voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average rectified output current(Note 1)@TA=50°C	$I_{O(AV)}$	10.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDECmethod)	$I_{FSM}$	400.0							A
Forward Voltage @IF=10A	$V_F$	1.0							V
Peak Reverse Current at rated DC blocking voltage	@TA=25°C	10.0							μA
	@TA=100°C	100.0							
Typical Junction Capacitance(Note 2)	$C_J$	150			80				pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	10							°C/W
Operating Temperature Range	$T_j$	-55 to +150							°C
Storage Temperature Range	$T_{STG}$								

1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal Resistance from Junction to Ambient.375"(9.5mm) lead length.

## RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

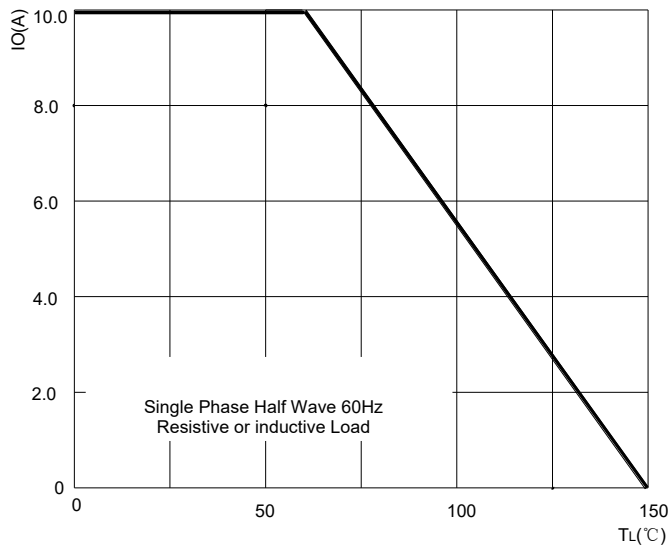


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

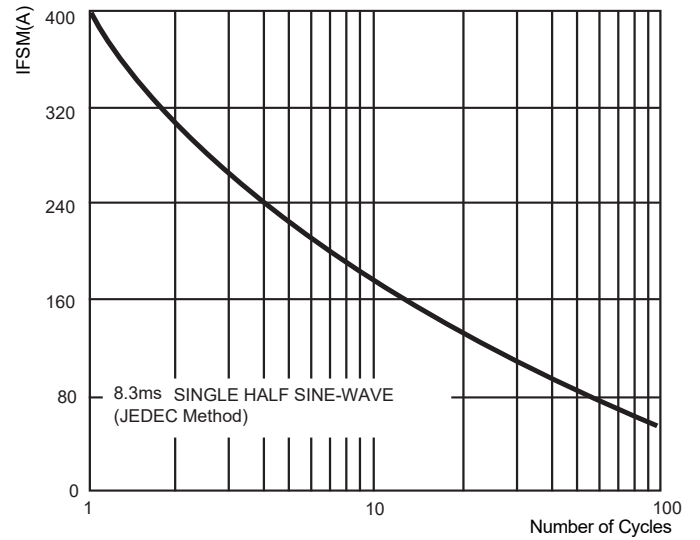


FIG.3: TYPICAL FORWARD CHARACTERISTICS

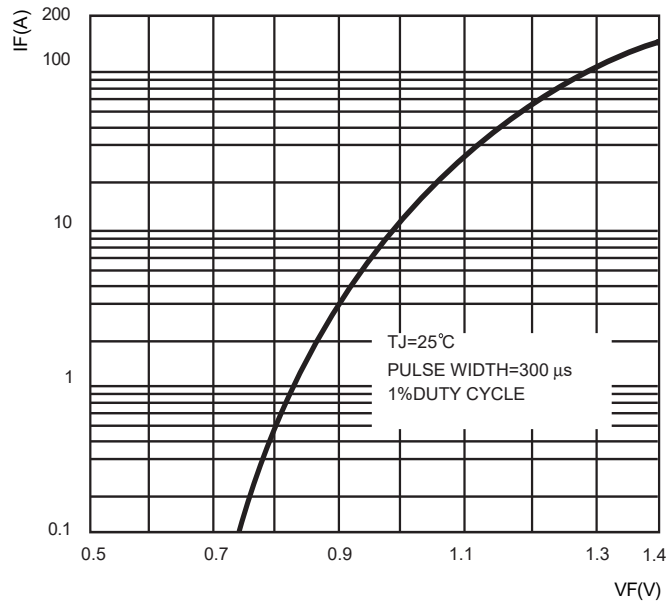


FIG.4: TYPICAL REVERSE CHARACTERISTICS

