

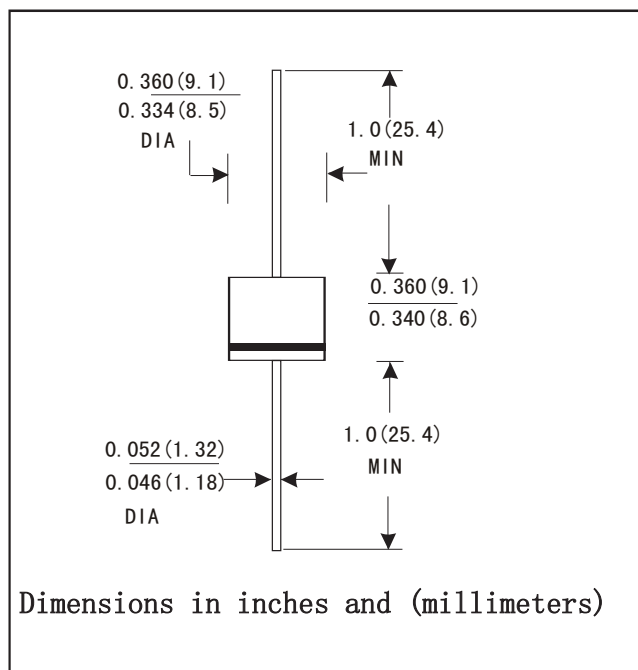
R-6 PLASTIC SILICON RECTIFIERS

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

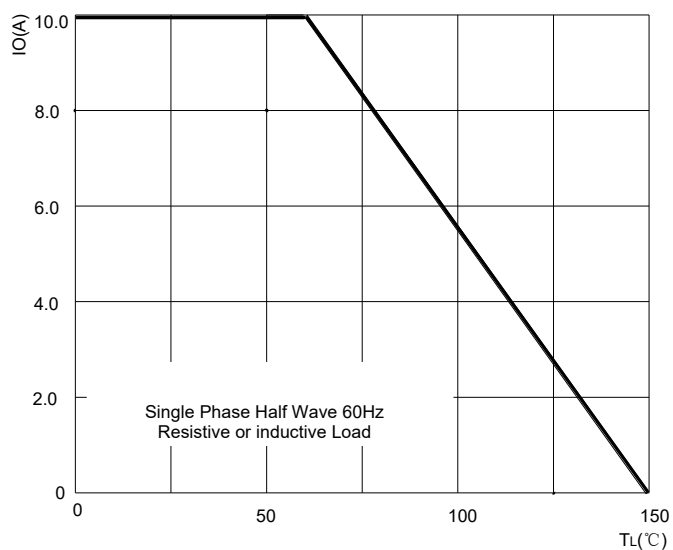
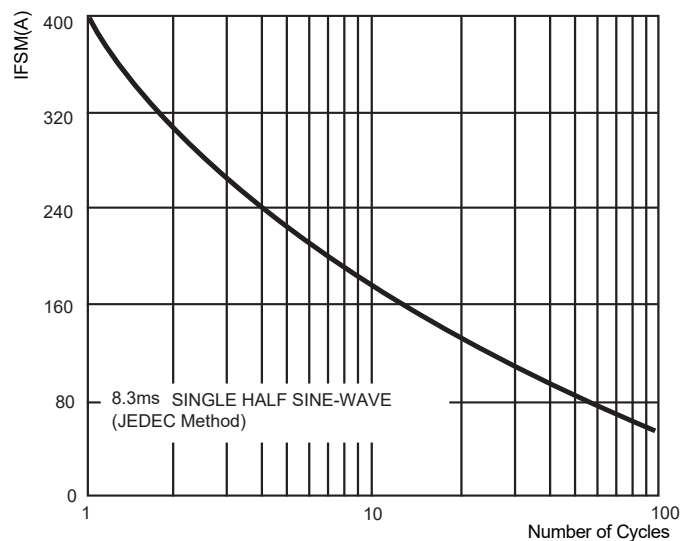
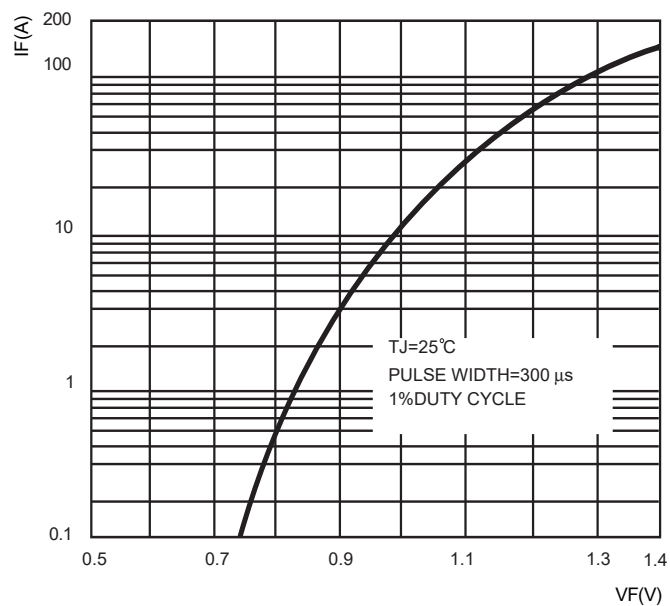
@ 25°C Ambient Temperature (unless otherwise noted)

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℃		$I_{O(AV)}$	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℃	I_{RM}	10.0							μA
	@TA=100℃		100.0							
Typical Junction Capacitance(Note 2)		C_J	150			80				pF
Typical Thermal Resistance Junction to Ambient (Note 1)		$R_{\theta JA}$	10							℃/W
Operating Temperature Range		T_J	-55 to+150							℃
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
