

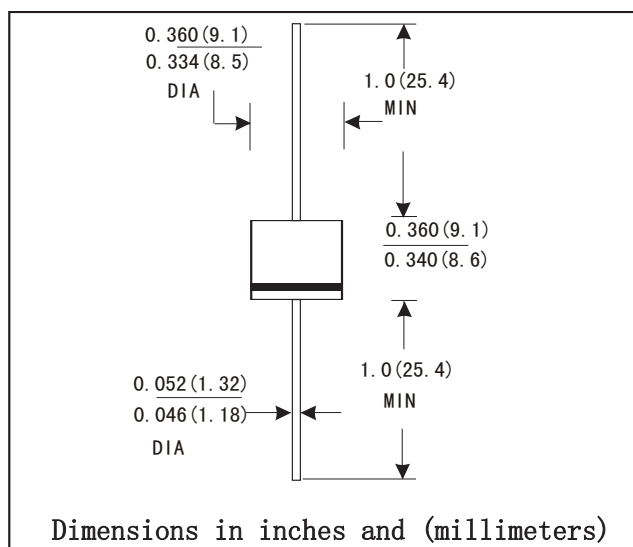
R-6 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- 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 style: R-6 molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter		Symbol	6A05	6A1	6A2	6A3	6A4	6A6	6A8	6A10	UNITS
Maximum recurrent peak reverse voltage		V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length TA=60°C		I _{F(AV)}	6.0								A
Peak forward surge current (8.3ms half Sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	250.0								A
Maximum instantaneous forward voltage @6.0 A		V _F	1.0								V
Maximum reverse current at rated DC blocking voltage	@TA=25°C	I _R	10.0								μ A
	@TA=100°C		400.0								
Typical junction capacitance (Note1)		C _J	150								pF
Maximum Full Load Reverse Current,Full Cycle Average .375"(9.5mm)Lead Length @TA=75°C		HIIR	5.0								A
Typical thermal resistance(Note2)		R _{θJA}	10								°C/W
Operating junction temperature range		T _J	-55 to+150								°C
		T _{STG}									

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

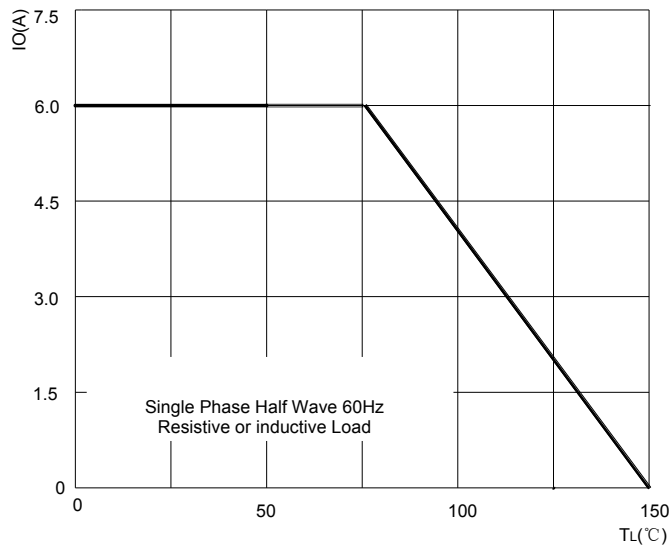


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

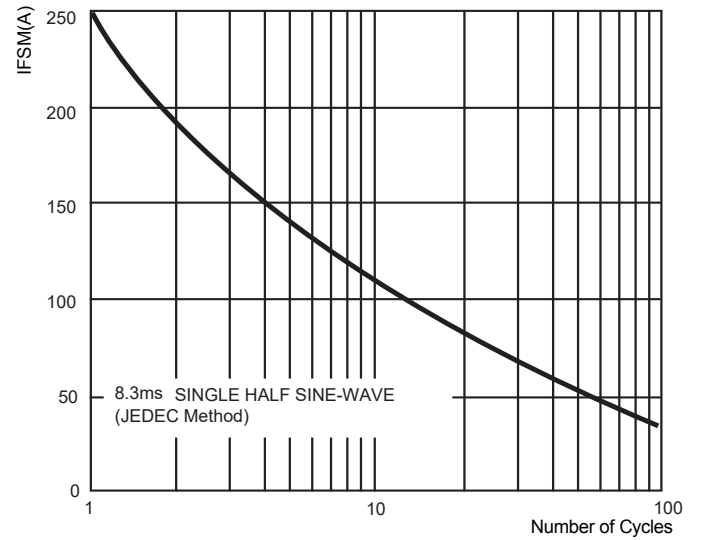


FIG.3: TYPICAL FORWARD CHARACTERISTICS

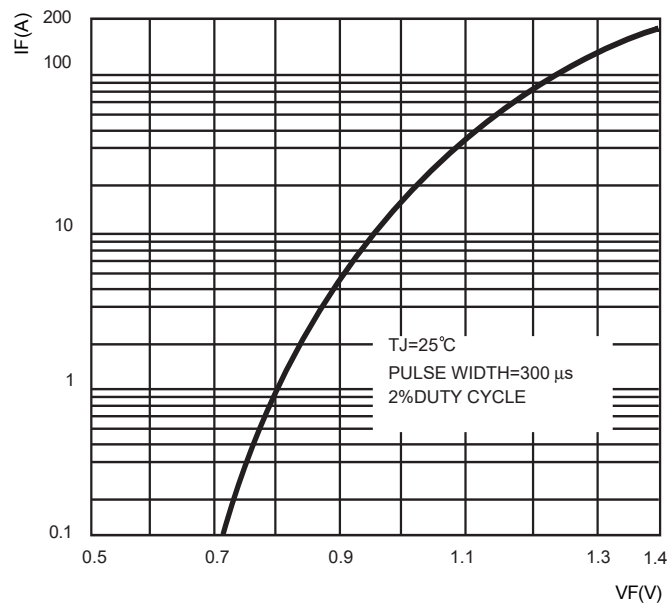


FIG.4: TYPICAL REVERSE CHARACTERISTICS

