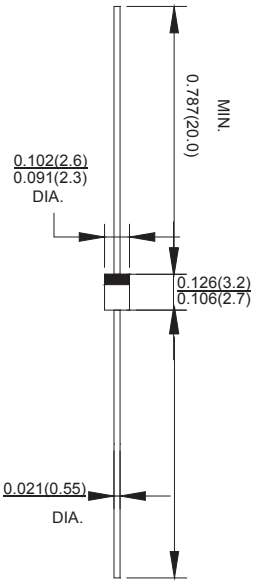
R-1 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:260 ℃/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: R-1 plastic molded
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any



Dimensions in inches and(millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter		Symbol	1A1	1A2	1A3	1A4	1A5	1A6	1A7	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forw ard rectified current 9.5mm lead length,@T_A=75℃		$I_{F(AV)}$	1.0							A
Peak forw ard surge current 8.3ms single alf-sine-wave superimposed on rated load @T_j=125℃		I_{FSM}	30.0							A
Maximum instantaneous forw ard voltage @ 1.0 A		V_F	1.0							V
Maximum reverse current at rated DC blocking voltage	@T_A=25°C	I_R	5.0							μA
	@T_A=100°C		50.0							
Typical junction capacitance (Note1)		C_J	15							pF
Typical thermal resistance(Note2)		$R_{\theta JA}$	60							℃/W
Operating junction temperature range		T_j	- 55 ---- + 125							℃
Storage temperature range		T_{STG}	- 55 ---- + 150							℃

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: Io-Ta Curve

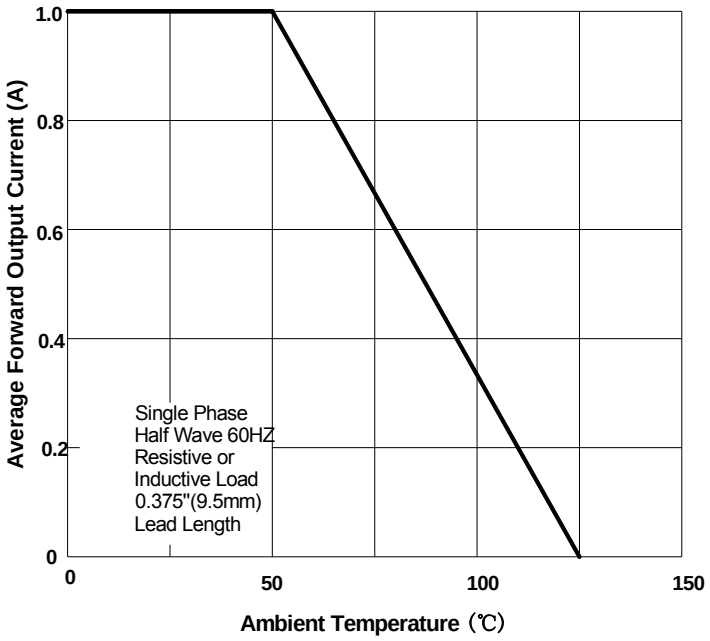


FIG.2: Surge Forward Currrent Capability

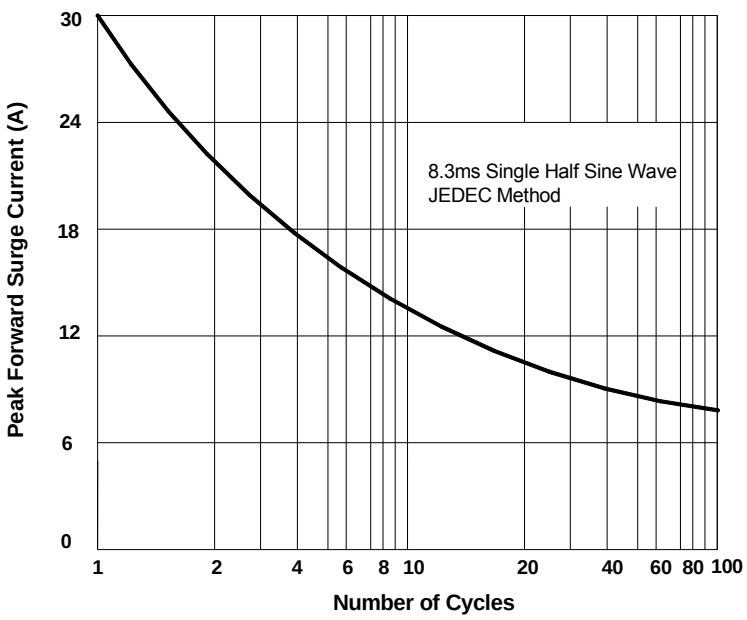


FIG.3: Forward Voltage

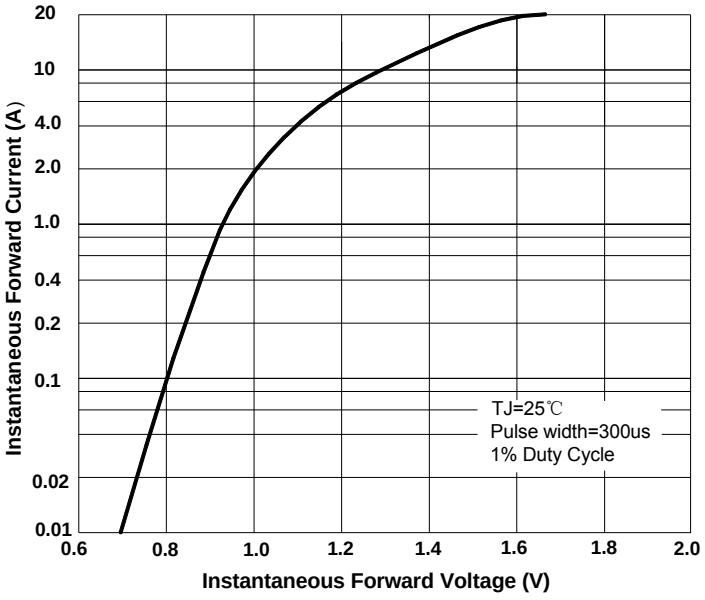


FIG.4: Typical Reverse Characteristics