

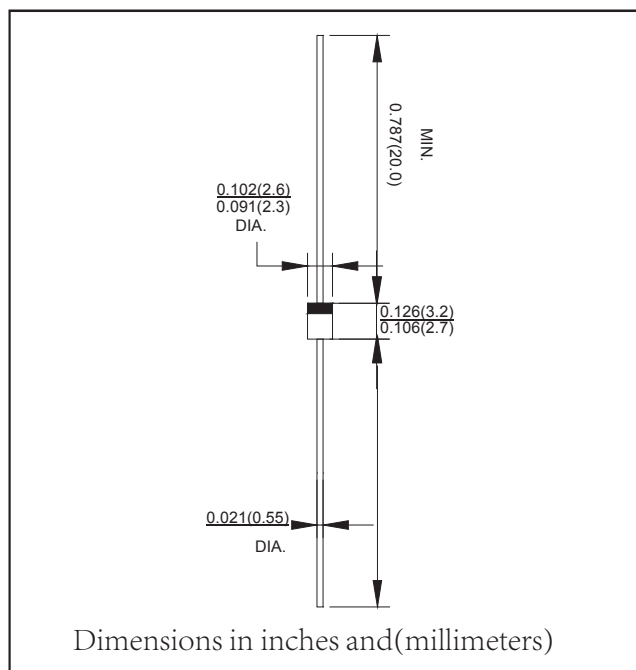
R-1 PLASTIC SILICON RECTIFIERS

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 °C/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



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°C		I _{F(AV)}	1.0							A
Peak forw ard surge current 8.3ms single alf-sine-wave superimposed on rated load @T _j =125°C		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							μ A
	@T _A =100°C		50.0							
Typical junction capacitance (Note1)		C _J	15							pF
Typical thermal resistance(Note2)		R _{θJA}	60							°C/W
Operating junction temperature range		T _j	- 55 ---- + 125							°C
Storage temperature range		T _{STG}	- 55 ---- + 150							°C

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

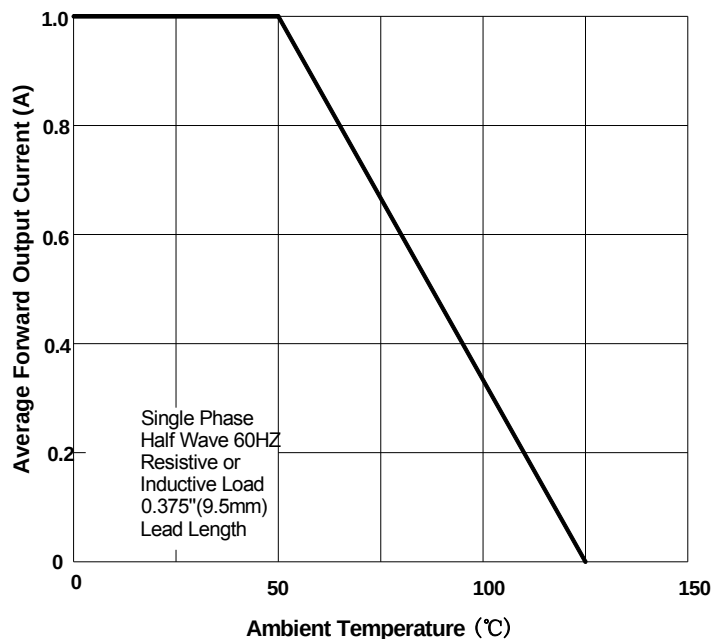


FIG.2: Surge Forward Current Capability

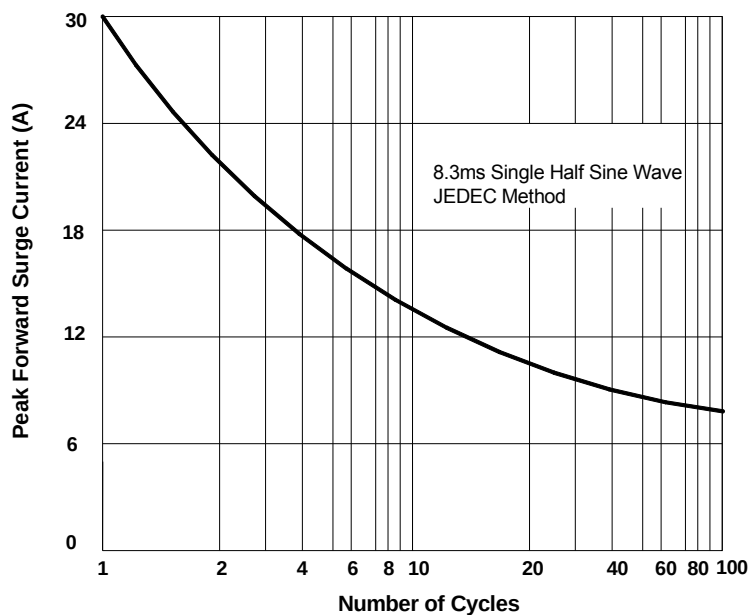


FIG.3: Forward Voltage

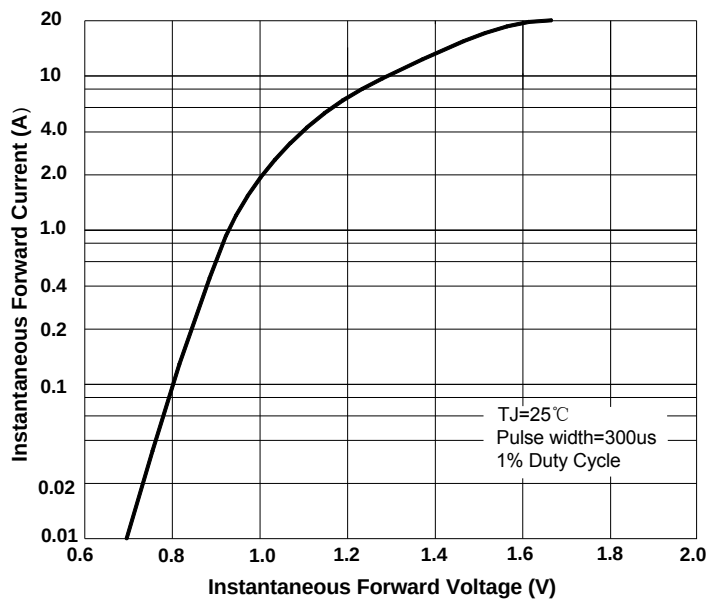


FIG.4: Typical Reverse Characteristics

