

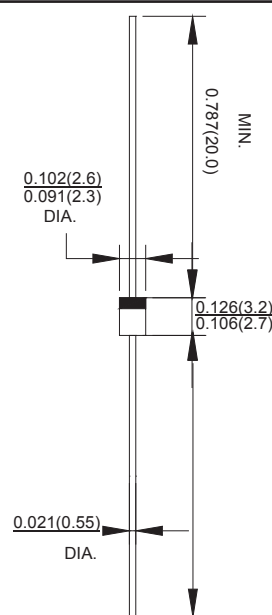
R-1 PLASTIC SILICON RECTIFIERS

FEATURES

- Diffused junction
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

MECHANICAL DATA

- Case:JEDEC R-1,molded plastic
- Terminals: Axial lead ,solderable per MIL-STD-202,Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any



Dimensions in inches and(millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	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 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 half-sine-w ave superimposed on rated load @T _J =125℃	I _{FSM}	30.0								A
Maximum instantaneous forw ard voltage @ 1.0 A	V _F	1.0			1.3		1.7			V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	5 125.0								μ A
Maximum reverse recovery time (Note1)	t _{rr}	50					75			ns
Typical junction capacitance (Note2)	C _J	20					15			pF
Typical thermal resistance (Note3)	R _{θJA}	60								℃/W
Operating junction temperature range	T _J	- 55 ---- + 150								℃
Storage temperature range	T _{STG}	- 55 ---- + 150								℃

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $t_{rr}=0.25A$.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3. Thermal resistance from junction to ambient.

RATINGS AND CHARACTERISTIC CURVES

FIG.1: I_o - T_a Curve

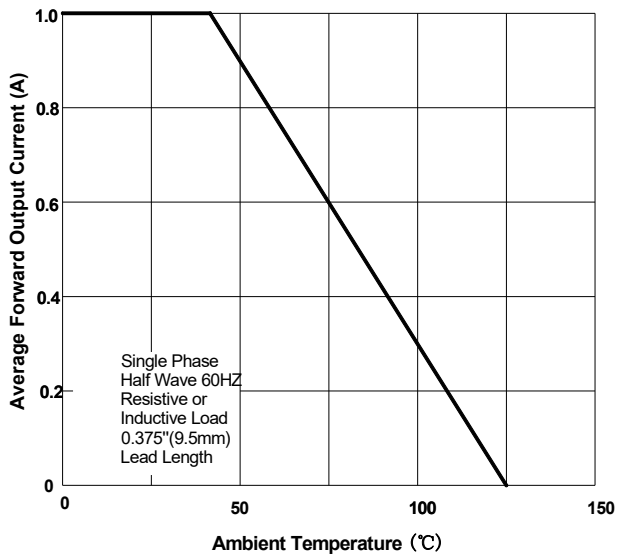


FIG.2: Surge Forward Current Capability

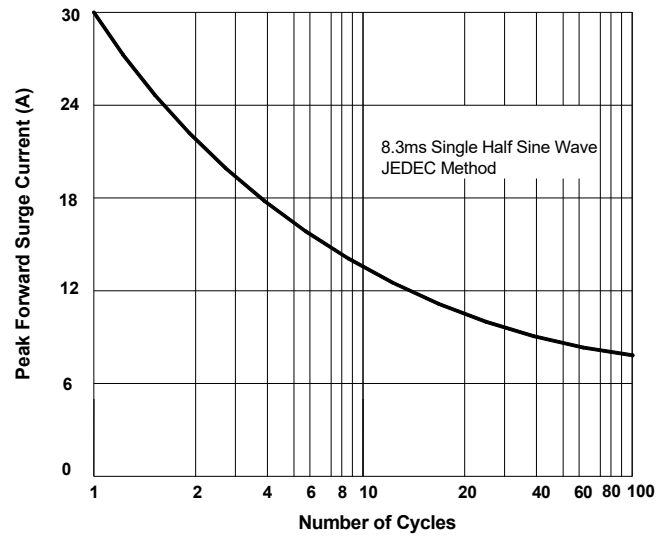


FIG.3: Forward Voltage

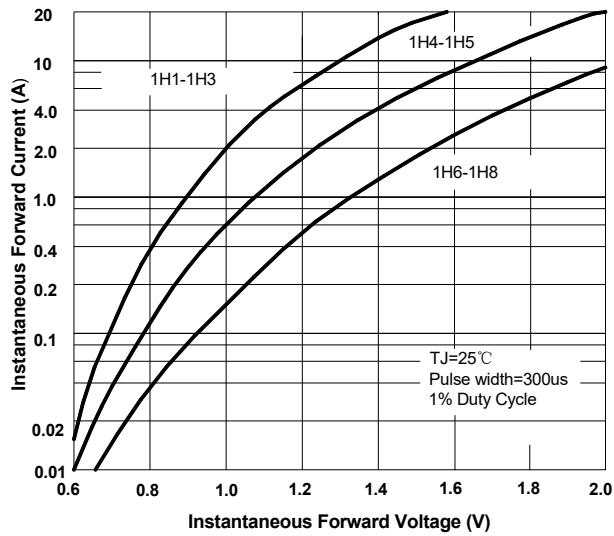


FIG.4: Typical Reverse Characteristics

