



1A1G THRU 1A7G

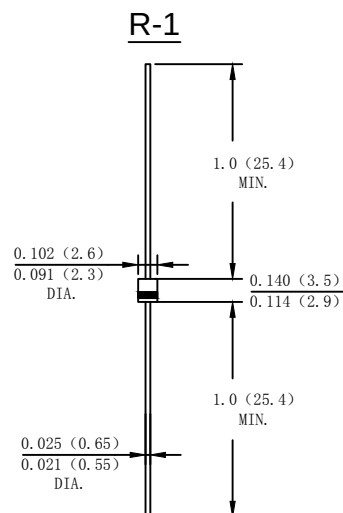
1.0 AMP. Glass Passivated Rectifiers

Features

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

Mechanical Data

- Case: Molded plastic black body, R-1
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/LeadFree Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	1A1G	1A2G	1A3G	1A4G	1A5G	1A6G	1A7G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	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
Average Rectified Output Current (Note 1) @T _A =40℃	I _O	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25							A
Forward Voltage @IF=1.0A	V _{FM}	1.1							V
Peak Reverse Current @T _A =25℃	I _R	5.0							uA
At Rated DC Blocking Voltage @T _A =100℃		100							
Typical Junction Capacitance (Note 2)	C _j	15							pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	50							℃/W
Operating Temperature Range	T _j	-65 to +150							℃
Storage Temperature Range	T _{STG}	-65 to +150							℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

1A1G THRU 1A7G

Fig. 1-FORWARD CURRENT DERATING CURVE

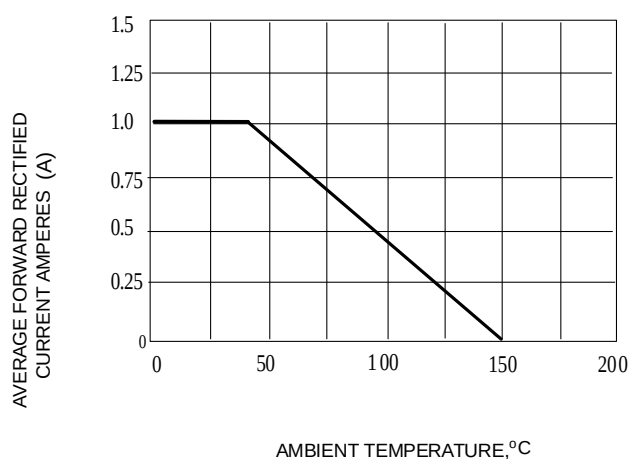


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

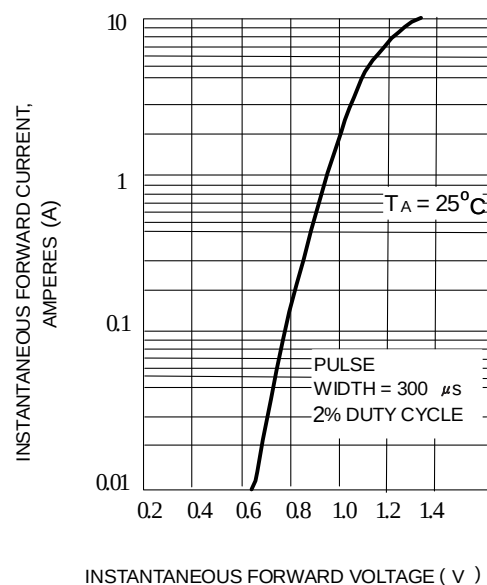


Fig. 3-MAXIMUM OVERLOAD SURGE CURRENT

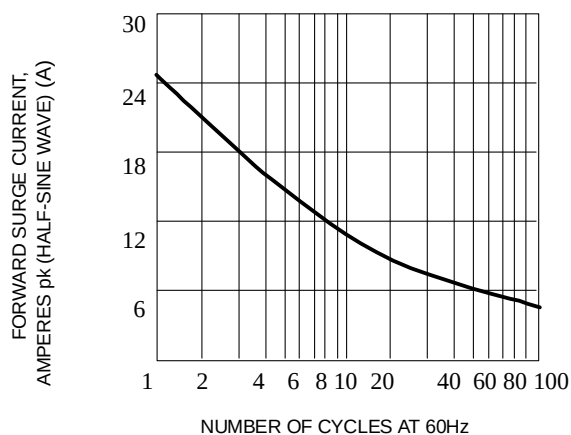


Fig. 4-TYPICAL JUNCTION CAPACITANCE

