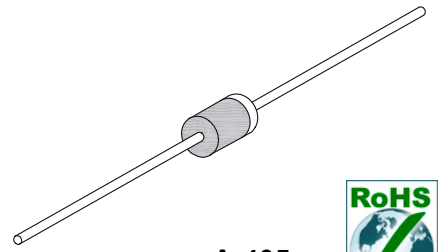
1.0A Glass Passivated Rectifier



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Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 260°C/10 seconds /.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant

Mechanical Data

Case:	Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202E, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.012 Ounce, 0.33 gram

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
$I_{O(AV)}$	Maximum Average Forward Rectified Current @Ta=75° C	1.0							A
I_{FSM}	Peak Forward Surge Current (Note1)	50							A
T_J	Operating Junction Temperature Range	-55 to +150							° C
T_{STG}	Storage Temperature Range	-55 to +175							° C

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	Unit
V_F	Maximum Forward Voltage @ IF=1.0A	1.1							V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	TA=25° C			5.0				µA
		TA=100° C			50				uA
C_J	Typical Junction Capacitance (Note2)	15							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	50							° C/W

Note: 1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

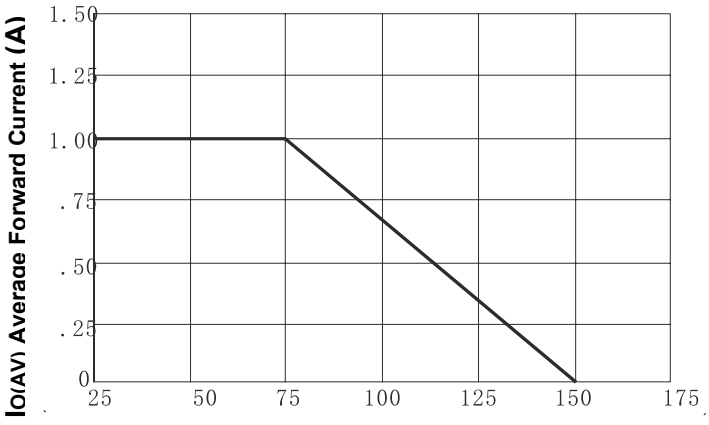


Fig.2-Max. Non-Repetitive Forward Surge Current

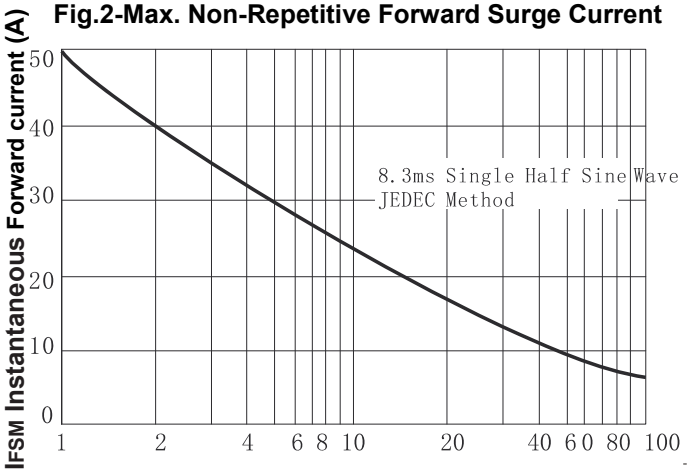


Fig.3-Typical Instantaneous Forward Characteristics

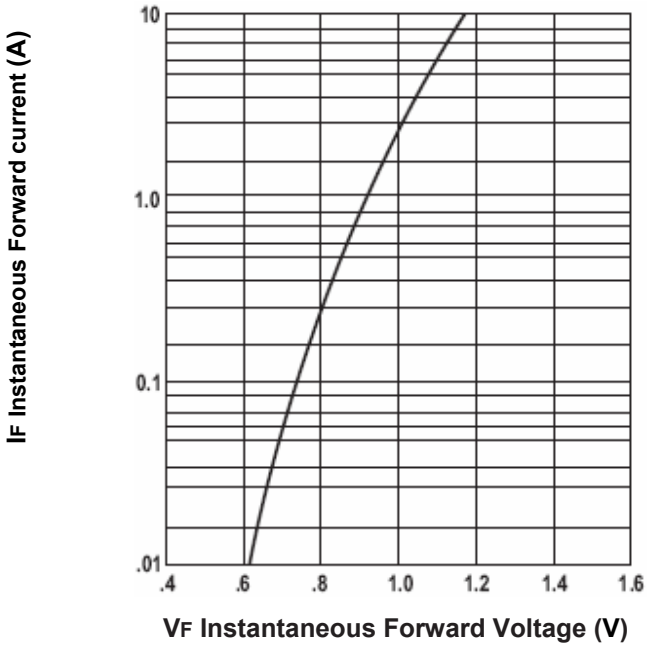


Fig.4- Typical Reverse Characteristics

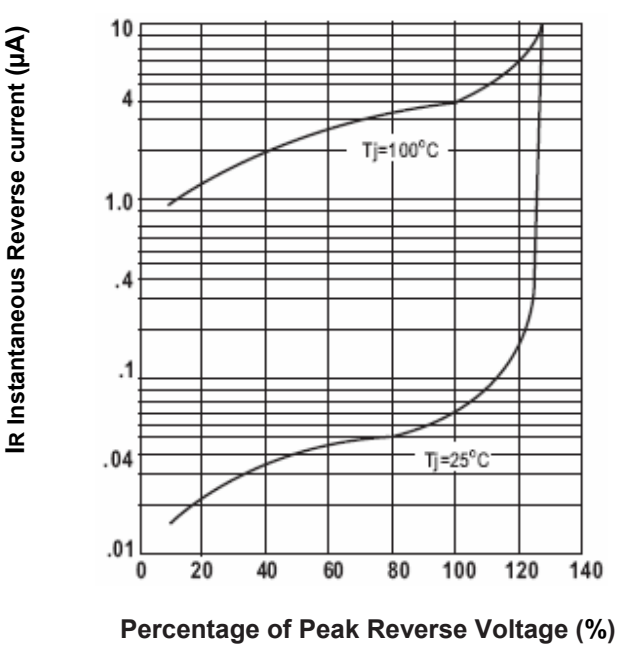
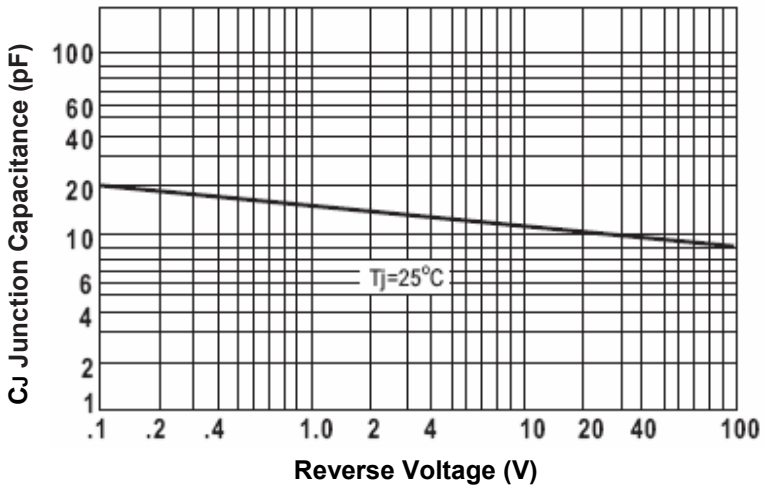


Fig.5-Typical junction capacitance



Dimensions in inches (mm)

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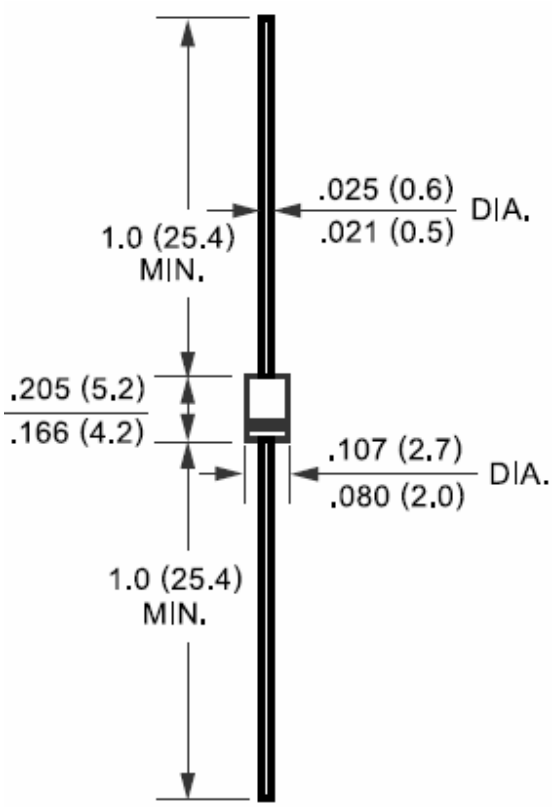

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