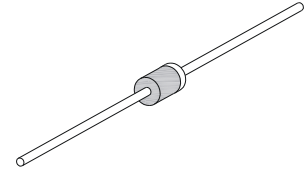


1A Glass Passivated Rectifiers

Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current, typical I_R less than $0.1\mu A$
- High forward surge current capability
- High temperature soldering guaranteed: $265^\circ C/10$ seconds
/.037" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliance



DO-204AL
(DO-41)



Mechanical Data

Case:	DO-204AL, molded epoxy over passivated chip
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	0.0107 ounce, 0.294 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^\circ C$ unless noted otherwise)

Symbol	Description	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit	Conditions
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	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	1.0							A	0.375" (9.5 mm) lead length at $T_A=75^\circ C$
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
$I_{R(AV)}$	Maximum Full Load Reverse Current, Full Cycle Average	30							μA	0.375" (9.5 mm) lead length at $T_A=75^\circ C$

1A Glass Passivated Rectifiers

1N4001G - 1N4007G

Symbol	Description	1N4001G	1N4002G	1N4003G	1N4004G	1N4005G	1N4006G	1N4007G	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.1							V	I _F =1.0A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	T _A =25° C
		50								T _A =100° C
C _J	Typical Junction Capacitance	6							pF	V _R =4V, f=1MHz
R _{thJA}	Typical Thermal Resistance	50							°C / W	Note
R _{thJL}		25								
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150							° C	

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

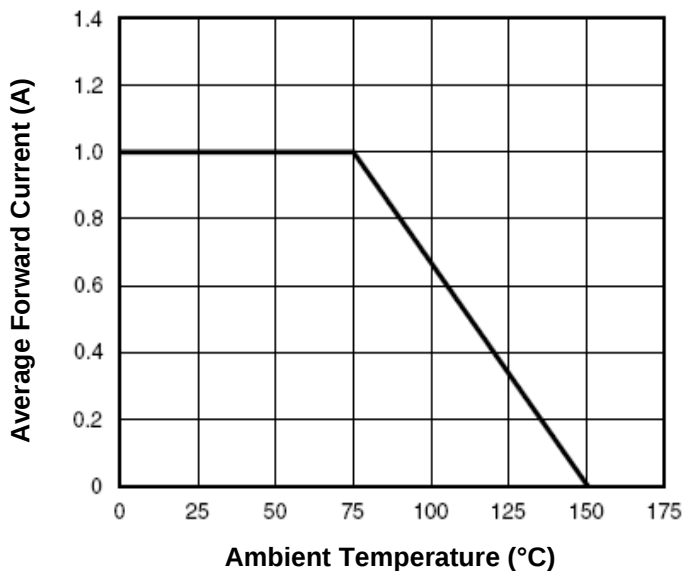
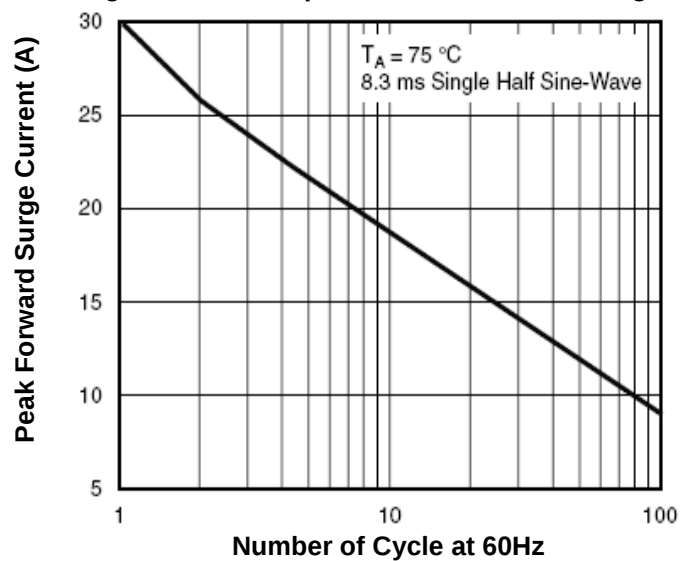


Fig.2-Max. Non-repetitive Peak Forward Surge Current



1A Glass Passivated Rectifiers

1N4001G - 1N4007G

Fig.3-Typical Instantaneous Forward Characteristic

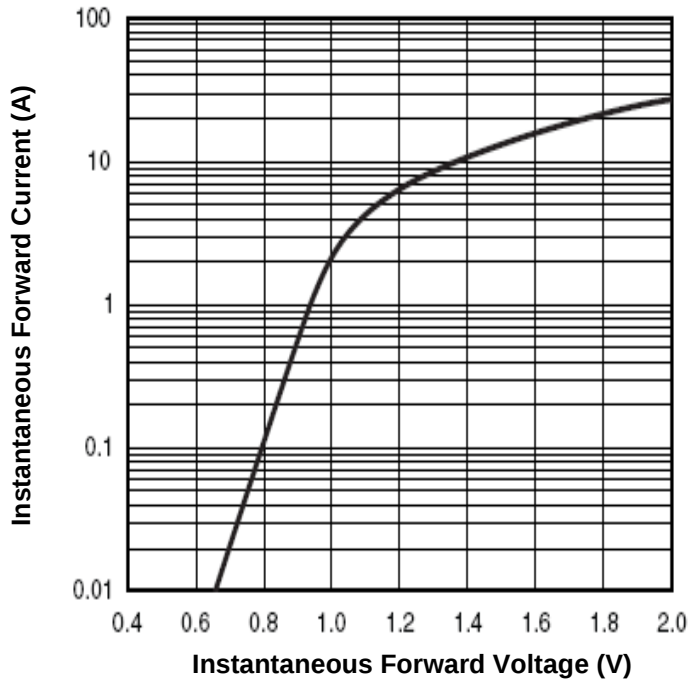


Fig.4-Typical Reverse Characteristics

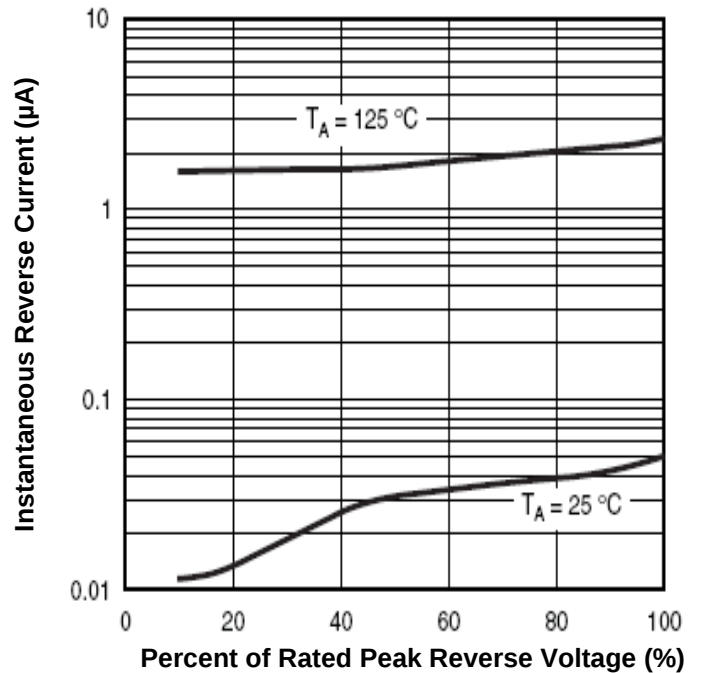
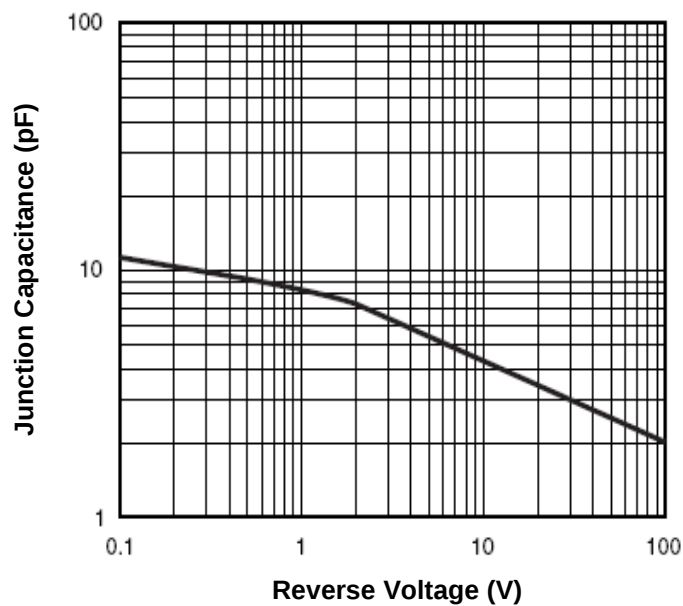


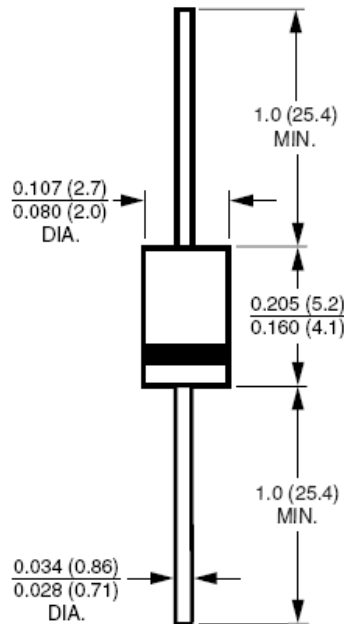
Fig.5-Typical Junction Capacitance



1A Glass Passivated Rectifiers

1N4001G - 1N4007G

Dimensions in inch (mm)



**DO-204AL
(DO-41)**

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