

### Features

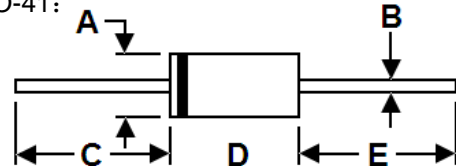
- \* Low Forward Voltage Drop
- \* High Current Capability
- \* High Reliability
- \* High Surge Current Capability



**RoHS**  
COMPLIANT

### Package Outline Dimensions

A-405/DO-41:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
<b>A</b>	2.0	2.7	0.078	0.107
<b>B(A-405)</b>	0.53	0.64	0.020	0.025
<b>B(DO-41)</b>	0.7	0.9	0.027	0.035
<b>C</b>	25.4	-	1.0	-
<b>D</b>	4.2	5.2	0.165	0.205
<b>E</b>	25.4	-	1.0	-

### Mechanical Data

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting Position: Any

### Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	1N4001 (L)G	1N4002 (L)G	1N4003 (L)G	1N4004 (L)G	1N4005 (L)G	1N4006 (L)G	1N4007 (L)G	Unit
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 D.C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm)Lead Length @ $T_A=60^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	30							A
Maximum Instantaneous Forward Voltage at 1.0A	$V_F$	1.0							V
Maximum D.C Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0 100							$\mu\text{A}$
Typical Junction Capacitance(Note1)	$C_J$	15							pF
Typical thermal resistance	$R_{\theta JA}$	80							$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_J/T_{STG}$	-55 to +150							$^\circ\text{C}$

Note:1、 Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

## Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

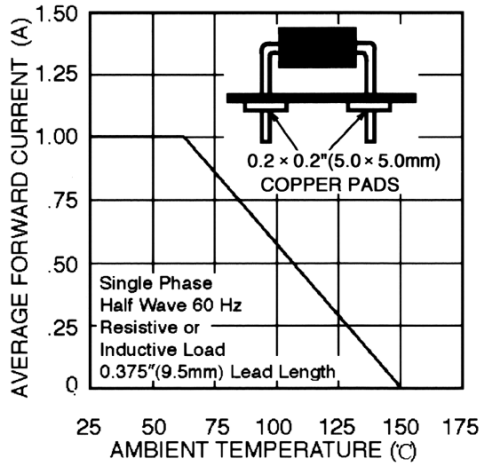


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

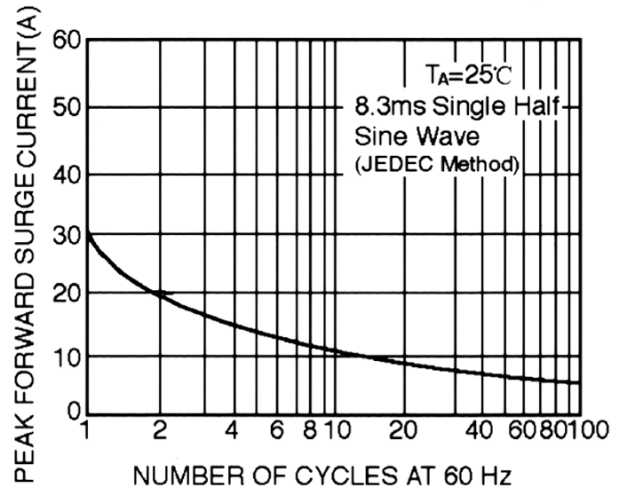


FIG. 3 – TYPICAL FORWARD CHARACTERISTICS

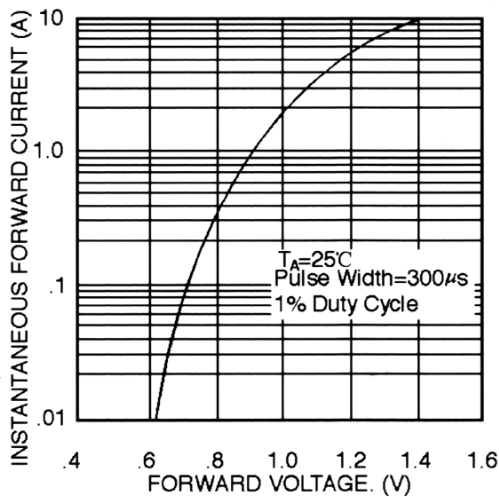
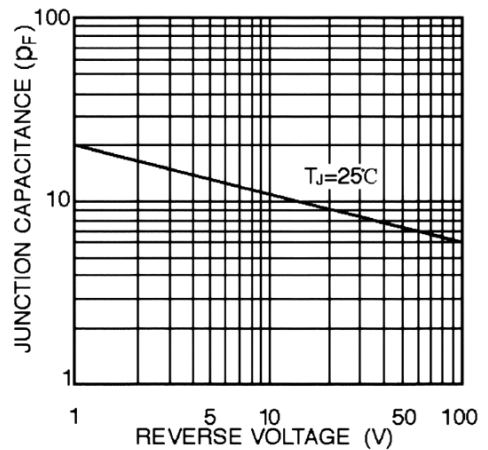


FIG. 4 – TYPICAL JUNCTION CAPACITANCE





# 1N4001(L)G THRU 1N4007(L)G

1.0 Amp. Glass Passivated Rectifiers

## Ordering Information

Part No.	Package	Packing
1N4001G~1N4007G(L)	A-405/DO-41	3K/AMMO box
1N4001G~1N4007G(L)	A-405/DO-41	5K/AMMO box
1N4001G~1N4007G(L)	A-405/DO-41	5K/13" Paper reel
1N4001G~1N4007G(L)	A-405/DO-41	1K/Bulk packing