

# 1N4001G THRU 1N4007G

## GLASS PASSIVATED RECTIFIERS

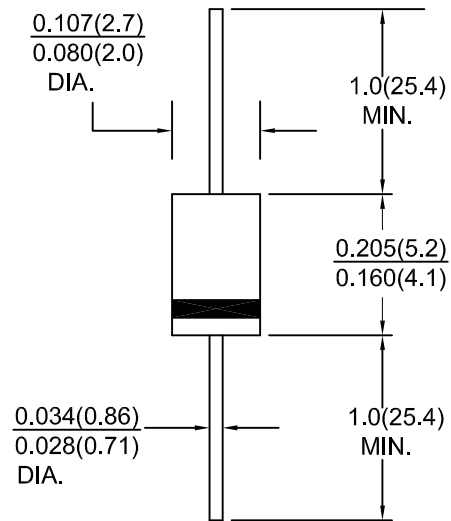
### FEATURES:

- High temperature bonded construction
- High surge current capability
- No thermal runaway at 1 Amp. Current  $T_a=75^\circ\text{C}$
- High temperature soldering guaranteed :  $250^\circ\text{C}$  /10 seconds, 0.375" lead length, 5lbs.(2.3kg) tension

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy  
 Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed  
 Polarity : Color band on body denotes cathode end  
 Mounting Position : Any  
 Weight : 0.33 grams, 0.012 ounce

### DO-204AL(DO-41)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at  $25^\circ\text{C}$  ambient temp. unless otherwise specified.

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

For capacitive load, derate current by 20 %.

Characteristic	Symbol	1N	1N	1N	1N	1N	1N	1N	Units
		4001G	4002G	4003G	4004G	4005G	4006G	4007G	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375 lead length at $T_a=75^\circ\text{C}$	$I_O$	1.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	30.0							Amps
Maximum instantaneous forward voltage drop at 1.0 A	$V_F$	1.1		1.0					Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$			5.0 100.0					$\mu\text{A}$
Typical thermal resistance (NOTE 1)	$R_{th-JA}$ $R_{th-JL}$						55 25		$^\circ\text{C/W}$
Typical junction capacitance (NOTE 2)	$C_j$	15.0							pF
Operating junction and storage temperature range	$T_j, T_{stg}$	-65 to +150							$^\circ\text{C}$

#### NOTES:

- 1.Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B mounted
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0V

# RATINGS AND CHARACTERISTIC CURVES 1N4001G THRU 1N4007G

