

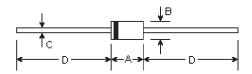
1N5400G THRU 1N5408G

GLASS PASSIVATED JUNCTION RECTIFIER
Reverse Voltage - 50 to 1000 Volts
Forward Current - 3.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 3.0 ampere operation at T_△=105°C with no thermal runaway
- Typical I_p less than 0.1 μ A
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3Kg) tension

DO-201AD



Mechanical Data

 Case: DO-201AD molded plastic over glass body
 Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026

• Polarity: Color band denotes cathode end

Mounting Position: Any

• Weight: 0.042 ounce, 1.195 grams

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
Α	0.283	0.374	7.20	9.50						
В	0.189	0.208	4.80	5.30	ф					
С	0.048	0.051	1.20	1.30	ф					
D	1.000	ı	25.40	-						

Maximum Ratings and Electrical Characteristics @25℃ unless otherwise specified

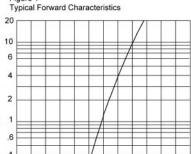
	Symbols	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Average forward current T _A =105℃	I _{F(AV)}	3.0							Amps
Peak forward surge current 8.3mS half sine-wave	I	200.0						Amps	
Maximum instantaneous I _{F,M} =3.0A; T _J =25°C (Note 1)	V _F	1.1					Volts		
	I _R	5.0 50.0							μА
Typical junction capacitance $ \begin{array}{c} \text{Measure at 1.0MHz,} \\ \text{V}_{\text{R}}\text{=}4.0\text{V} \end{array} $	CJ	40				ρF			
Typical thermal resistance	$R_{\oplus_{JA}}$	30						°C/W	
Operating and storage temperature range	T _J , T _{STG}	-65 to +175						$^{\circ}$	

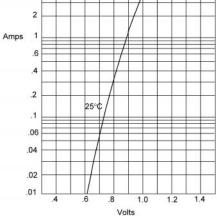
Note:

(1) Pulse test: Pulse width 300uSec, Duty cycle 1%

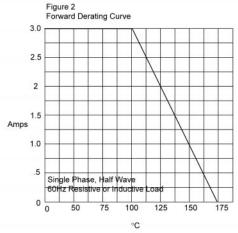
RATINGS AND CHARACTERISTIC CURVES

Figure 1

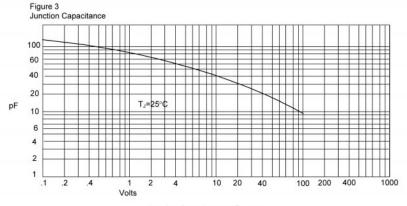




Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



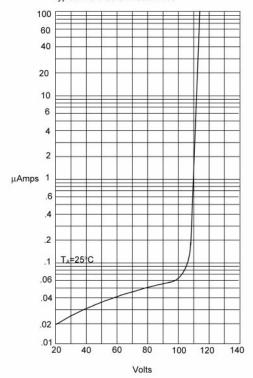
Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C



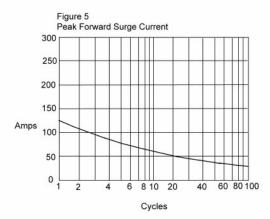
Junction Capacitance - pF versus Reverse Voltage - Volts

RATINGS AND CHARACTERISTIC CURVES

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes*versus* Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles