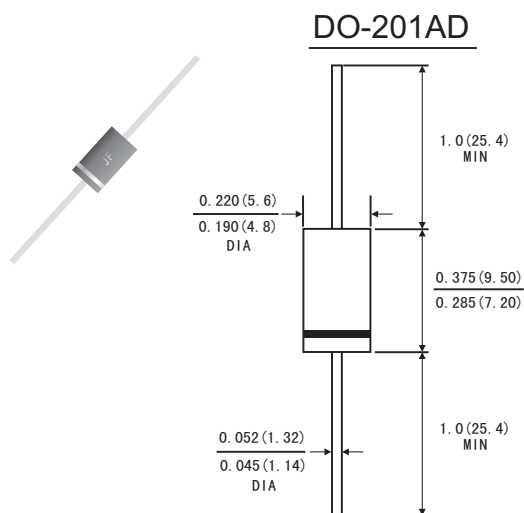


### FEATURES

- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High surge current capability
- 3.0A operation at  $T_L=75^{\circ}\text{C}$  with no thermal runaway
- Typical  $I_R$  less than  $0.1\mu\text{A}$
- High temperature soldering guaranteed:  $260^{\circ}\text{C}/10$  seconds at terminals  
0.375"(9.5mm) lead length,5lbs.(2.3kg)tension
- Component in accordance to RoHs 2011/65/EU

### MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.042ounce, 1.19 grams



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at  $25^{\circ}\text{C}$  ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz,,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	1N 5400G	1N 5401G	1N 5402G	1N 5403G	1N 5404G	1N 5405G	1N 5406G	1N 5407G	1N 5408G	Units	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	Volts	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	350	420	560	700	Volts	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	500	600	800	1000	Volts	
Maximum average Forward Rectified Current	$I_{(AV)}$	3.0									Amps	
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200.0									Amps	
Maximum Instantaneous Forward Voltage at 3.0 A	$V_F$	1.0									Volts	
Maximum Reverse current at rated DC Blocking Voltage	$I_R$										$T_s = 25^{\circ}\text{C}$	$\mu\text{A}$
											$T_s = 100^{\circ}\text{C}$	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30									$^{\circ}\text{C}/\text{W}$	
Typical Junction Capacitance (Note 1)	$C_J$	60									pF	
Operating and Storage temperature Range	$T_J$	-65 to+150									$^{\circ}\text{C}$	
	$T_{STG}$											

**Note:** 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

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

# RATINGS AND CHARACTERISTIC CURVES 1N5400G THRU 1N5408G

FIG.1-FORWARD CURRENT DERATING CURVE

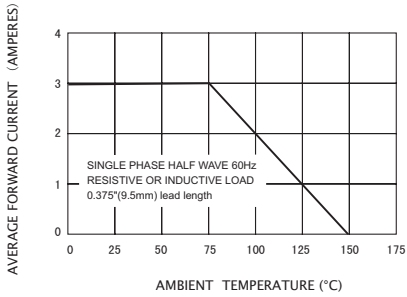


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

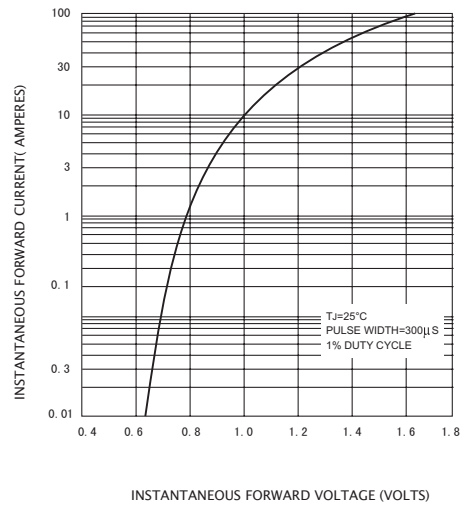


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

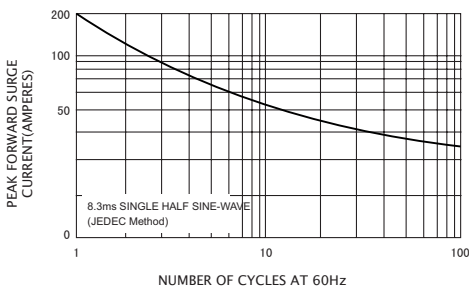


FIG.4-TYPICAL REVERSE CHARACTERISTICS

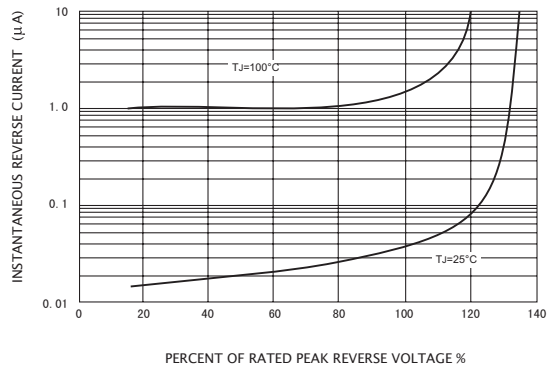
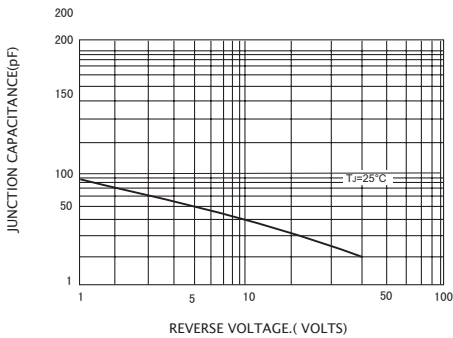


FIG.5-TYPICAL JUNCTION CAPACITANCE



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