

1N5400 thru 1N5408

General Purpose Plastic Rectifiers Reverse Voltage 50 to 1000V Forward Current 3.0A

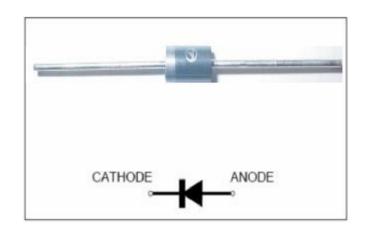
Feature

- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0
- * Construction utilizes void-free molded plastic technique
- * Low reverse leakage
- * High forward surge capability
- * Diffused junction
- * High temperature soldering guaranteed:
 260°C/10 seconds, 0.375" (9.5mm) lead length,
 5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-201AD, molded plastic body
Terminals: Plated axial leads, solderable per
MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.038 oz., 1.03 g Handling precautin:None



Electrical Characteristic

1.Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 75^{\circ}C$	I _{F(AV)}	3.0									А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200									А
Maximum full load reverse current, full cycle average,0.375"(9.5mm) lead lengths at T _A = 105°C	I _{R(AV)}	200									μΑ
Typical thermal resistance (Note 1)	RθJ _A	20									°C/W
Maximum DC blocking voltage temperature	T _A	150								°C	
Operating junction and storage temperature range	TJ	-50 to +150								°C	

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

210 th 10 th											
Parameter Symbol	symbol	1N 5400	1N 5401	1N 5402	1N 5403	1N 5404	1N 5405	1N 5406	1N 5407	1N 5408	Unit
Maximum instantaneous forward voltage at 3.0A	V_{F}	1.10								V	
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR	5.0 200							μA		
Typical junction capacitance at 4.0V, 1MHz	CJ	30								PF	

NOTES

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



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2. Characteristic Curves (TA = 25°C unless otherwise noted)

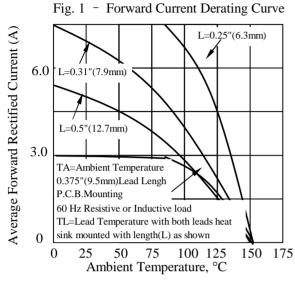


Fig 3. - Typical Instantaneous Forward

Characteristics

100

100

TJ = 25°C

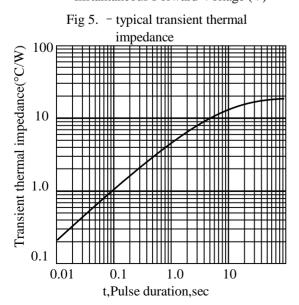
Pulse width = 300µs

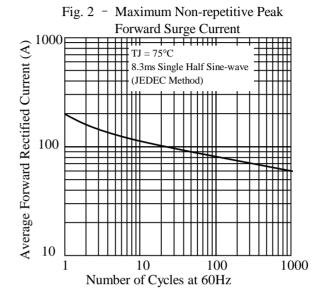
1% Duty Cycle

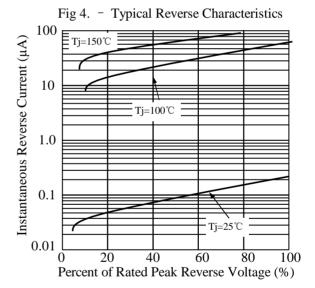
0.01

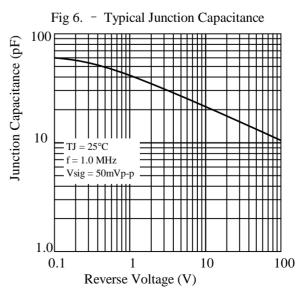
0.6

Instantaneous Forward Voltage (V)





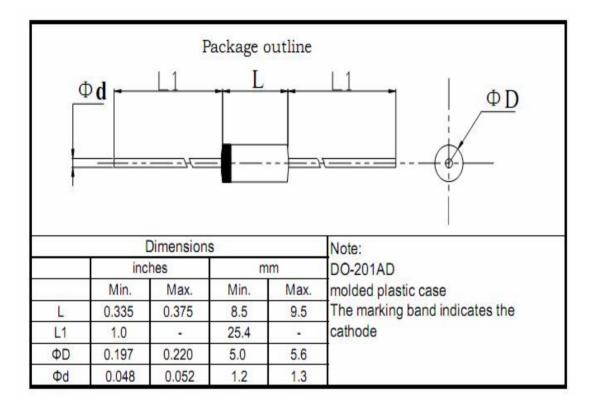






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3. dimension:



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