1N5400 THRU 1N5408

GENERAL PURPOSE PLASTIC SILICON RECTIFIER Reverse Voltage – 50 to 1000 V Forward Current – 3 A

Features

- High current capability
- Low leakage current

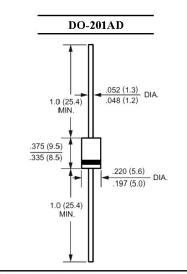
Mechanical Data

• Case: Molded plastic, DO-201AD

 Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed

• Polarity: Color band denotes cathode end

• Mounting position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

Ratings 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%.

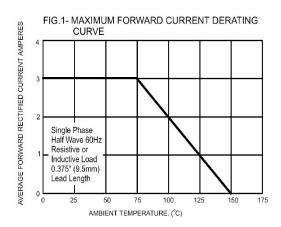
Parameter	Symbols	1N	1N	1N	1N	1N	1N	1N	1N	1N	Units
	,	5400	5401	5402	5403	5404	5405	5406	5407	5408	
	Marking	1N540	1N540			1N540			1N540	1N540	-
		0	1	2	3	4	5	6	/	8	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	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"(9.5 mm) Lead Length at T _A = 75 °C	I _(AV) 3									Α	
Peak Forward Surge Current, 8.3 ms Single	I _{FSM} 200										
Half-sine-wave Superimposed on rated load									Α		
(JEDEC method)											
Maximum Forward Voltage at 3 A DC	V_{F}	1.1									V
Maximum Reverse Current T _A = 25 °C		5									μА
at Rated DC Blocking Voltage T _A = 100 °C	I _R 1000										
Typical Junction Capacitance 1)	Сл		50								
Typical Thermal Resistance 2)	Reja	18									°C/W
Operating Junction Temperature Range	TJ	-55 to +150									°C
Storage Temperature Range	T _{Stg}	-55 to +150									°C

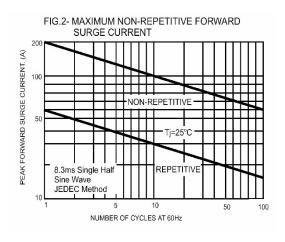
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

²⁾ Thermal resistance junction to ambient and juntion to lead at 0.375" (9.5 mm) lead length P.C.B mounted with 0.8 X 0.8" (20 X 20 mm) copper pads.

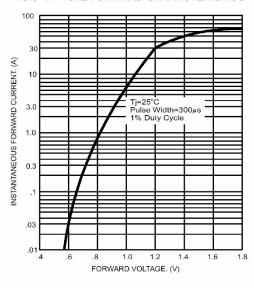


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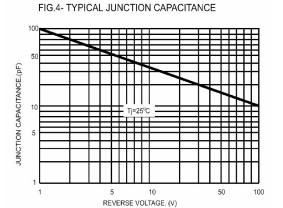


FIG.5- TYPICAL REVERSE CHARACTERISTICS

