

**PLASTIC SILICON RECTIFIERS**

REVERSE VOLTAGE - **50 to 1000** Volts  
FORWARD CURRENT - **3.0** Amperes

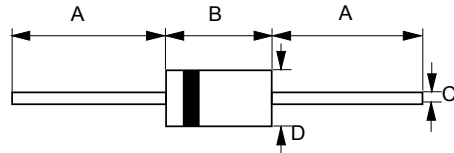
**FEATURES**

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

**MECHANICAL DATA**

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

**DO-201AD**



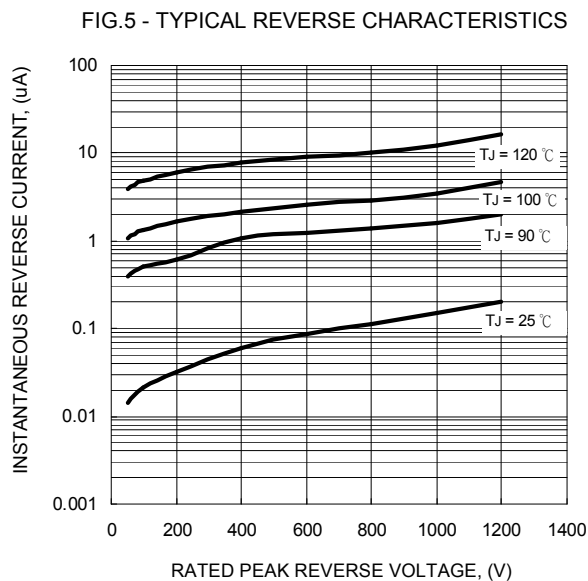
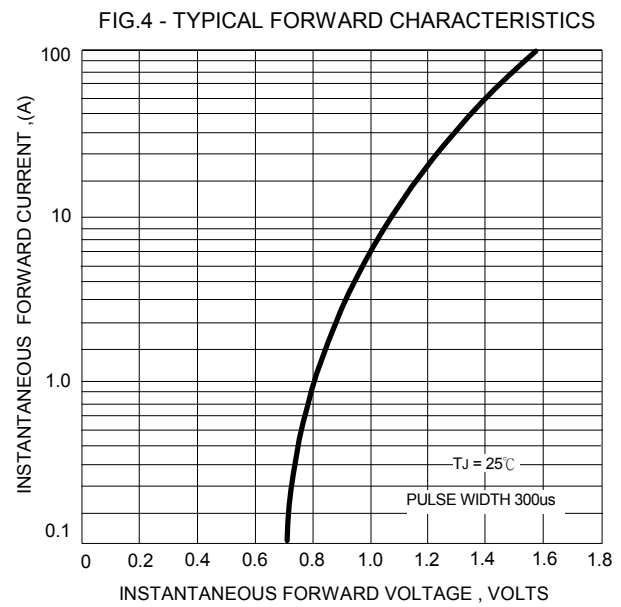
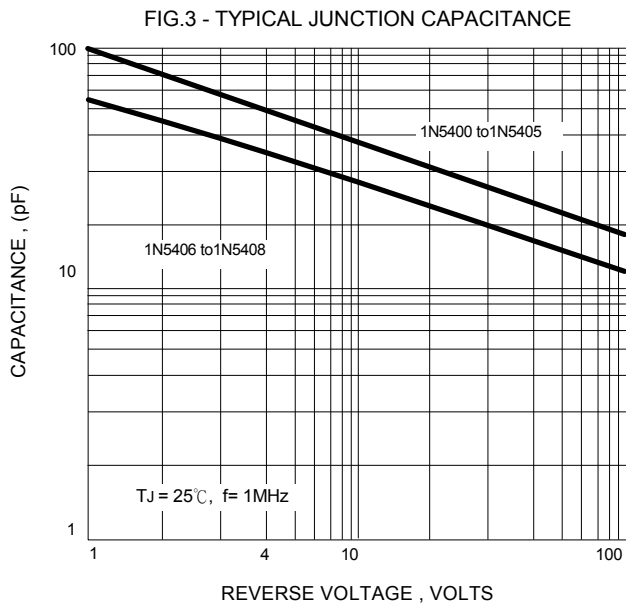
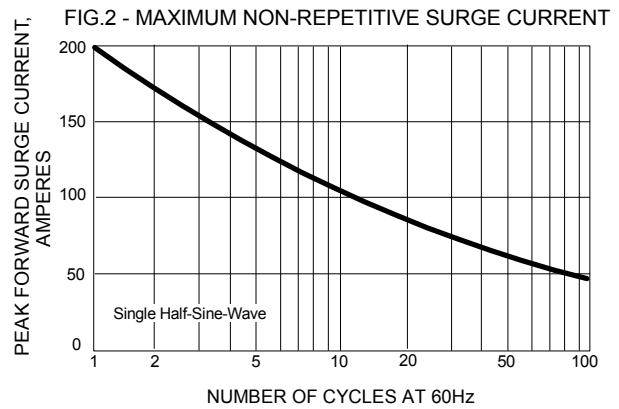
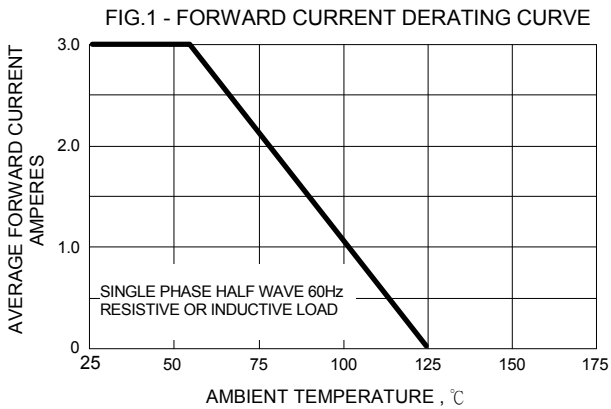
DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	1N	1N	1N	1N	1N	1N	1N	1N	1N	UNIT
		5400	5401	5402	5403	5404	5405	5406	5407	5408	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I <sub>(AV)</sub>	3.0									A
Peak Forward Surge Current 8.3ms single half sine-wave @T <sub>J</sub> =25°C	I <sub>FSM</sub>	200									A
Maximum forward Voltage at 3.0A DC	V <sub>F</sub>	1.0									V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>J</sub> =25°C @T <sub>J</sub> =100°C	I <sub>R</sub>	10 50									uA
I <sup>2</sup> t Rating for fusing (3ms ≤ t ≤ 8.3ms)	I <sup>2</sup> t	166									A <sup>2</sup> S
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	50						35			pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub> R <sub>θJC</sub>	30 10 5									°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125									°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Thermal Resistance Junction to Ambient, Lead and Case.



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