

## FEATURES

- | Low Forward Voltage Drop
- | High Forward Surge Capability
- | High Reliability



DO-201



Schematic Symbol

## MECHANICAL DATA

- | Case: DO-201 Molded Plastic
- | Polarity: Color Band Denotes Cathode
- | Mounting Position: Any

## APPROVALS

<b>RoHS</b>	Compliance with 2011/65/EU
<b>HF</b>	Compliance with IEC61249-2-21:2003

## MAXIMUM RATINGS AND CHARACTERISTICS (T<sub>A</sub>=25°C)

Parameter	Symbol	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	Unit	
Marking		1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000		
Maximum Average Forward Rectified Current At T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	3.0							A	
Non-Repetitive Peak Forward Surge Current 8.3 Ms Singlehalf Sine-wave	I <sub>FSM</sub>	200								
Maximum Instantaneous Forward Voltage at 3.0A	V <sub>F</sub>	1.0							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25°C	I <sub>R</sub>	5.0							μA
	T <sub>A</sub> =100°C		50							
Typical Junction Capacitance (Note1)	C <sub>J</sub>	50							pF	
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	20							°C/W	
Operating Junction And Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55~+150							°C	

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 375" (9.5mm) lead length, P.C. board mounted.

# CHARACTERISTIC CURVES

Fig.1 Typical Forward Current Derating Curve

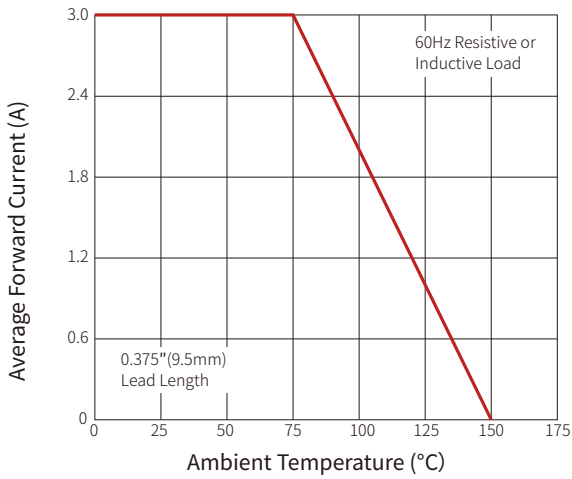


Fig.2 Maximum Non-repetitive Peak Forward Surge Current

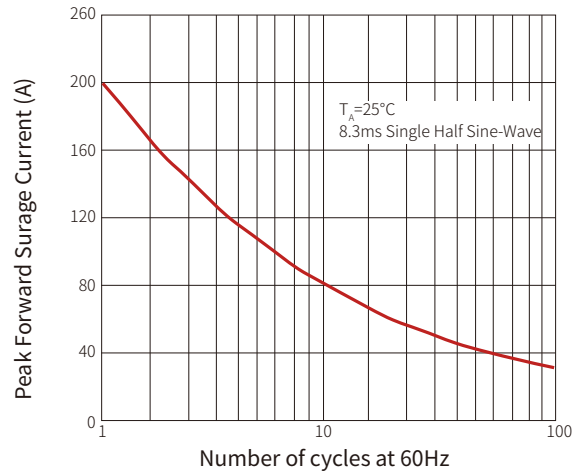


Fig.3 Typical Instantaneous Forward Characteristics

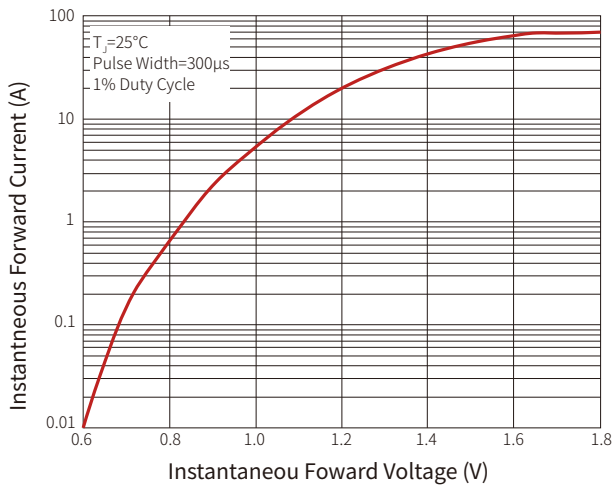


Fig.4 Typical Reverse Characteristics

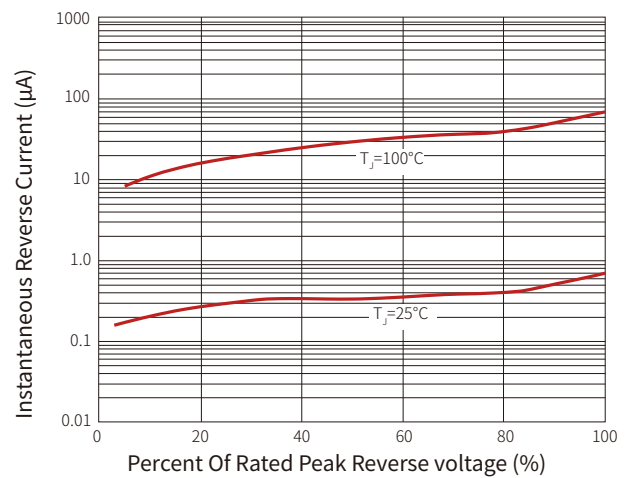
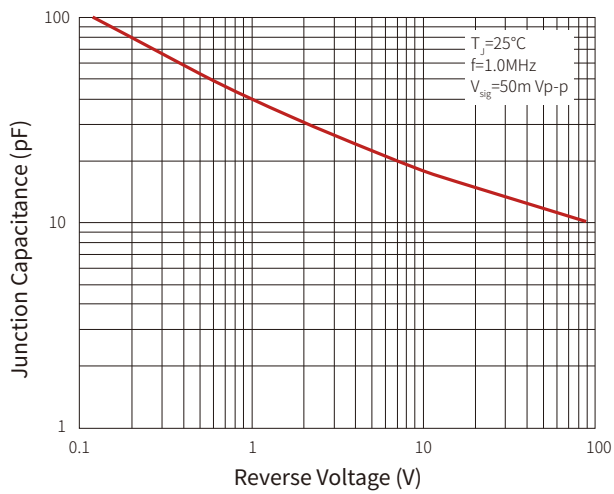
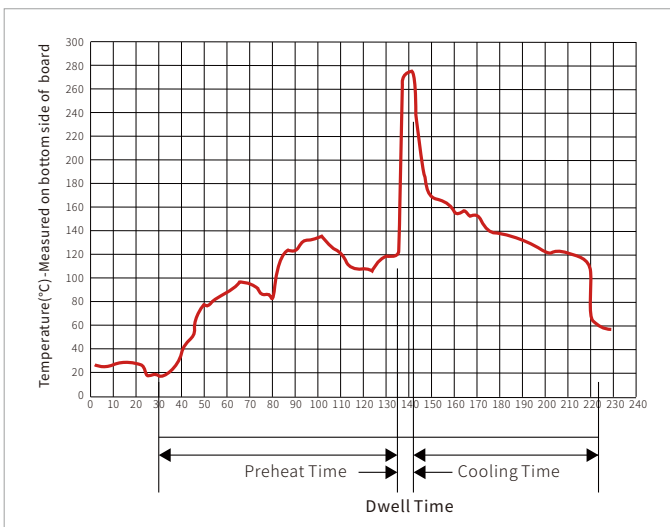


Fig.5 Typical Junction Capacitance

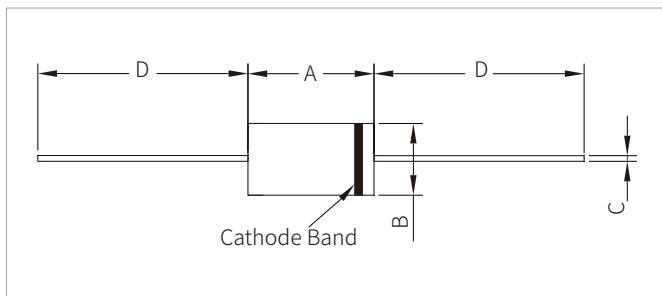


## WAVE SOLDERING



Wave Parameter		Lead-free assembly
Pre Heat	Temperature Min	100°C
	Temperature Max	150°C
	Time(min to max)	60 - 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

## DO-201 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	8.50	9.50	0.335	0.375
B	4.80	5.60	0.189	0.220
C	1.10	1.45	0.043	0.057
D	24.00	-	0.945	-

## ORDERING INFORMATION

Part Number	Component Package	Per Carton	Description
1N5400-1N5408	DO-201	1250pcs	Reel

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