

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

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

MAXIMUM RATINGS AND CHARACTERISTICS (T_A=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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current At T _A =75°C	I _{F(AV)}	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3 Ms Singlehalf Sine-wave	I _{FSM}	200							
Maximum Instantaneous Forward Voltage at 3.0A	V _F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _A =25°C							μA
		T _A =100°C							
Typical Junction Capacitance (Note1)	C _J	50							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	20							°C/W
Operating Junction And Storage Temperature Range	T _J , T _{STG}	-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

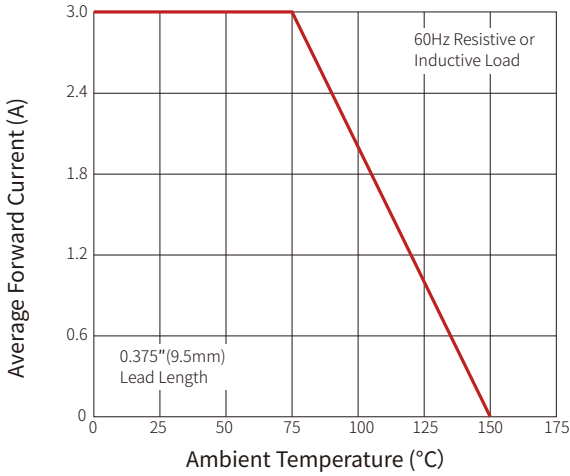


Fig.2 Maximum Non-repetitive Peak Forward Surge Current

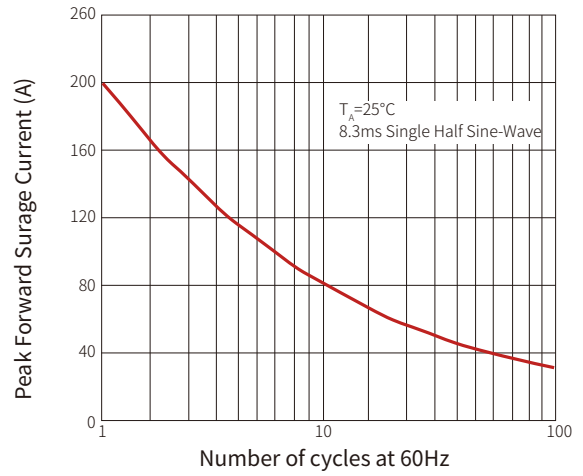


Fig.3 Typical Instantaneous Forward Characteristics

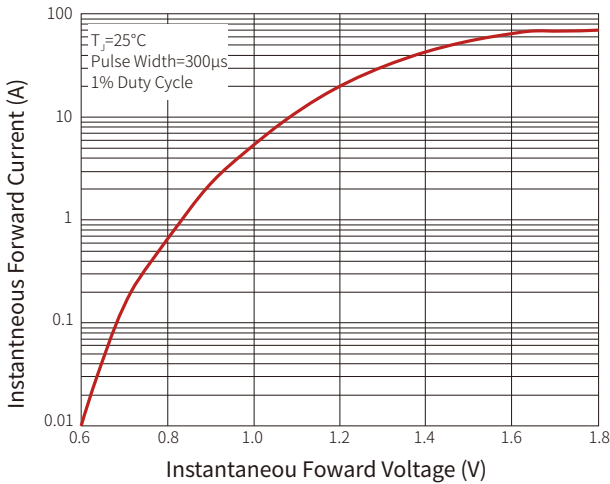


Fig.4 Typical Reverse Characteristics

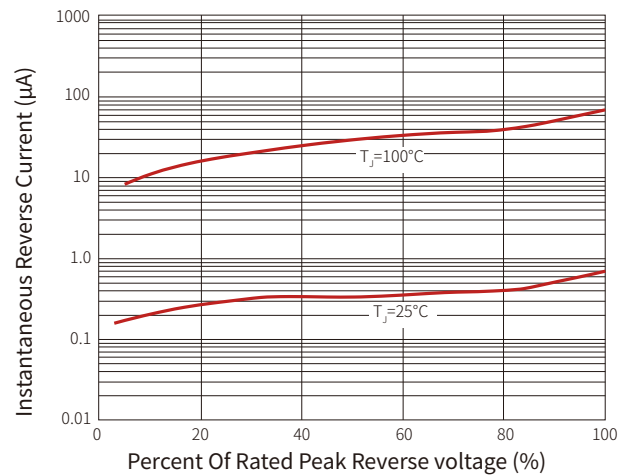
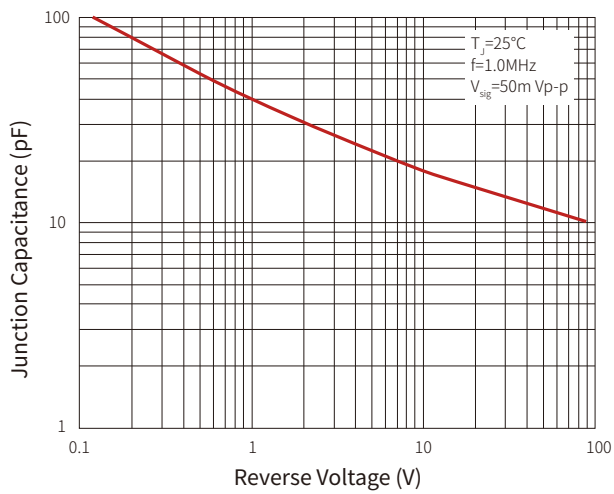
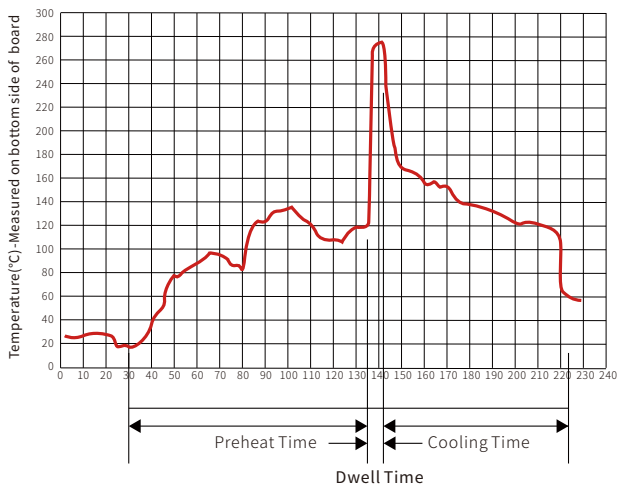


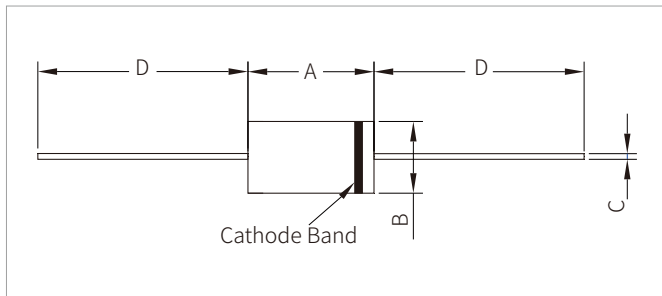
Fig.5 Typical Junction Capacitance


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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Wechat

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