

### 3.0A STANDARD DIODE

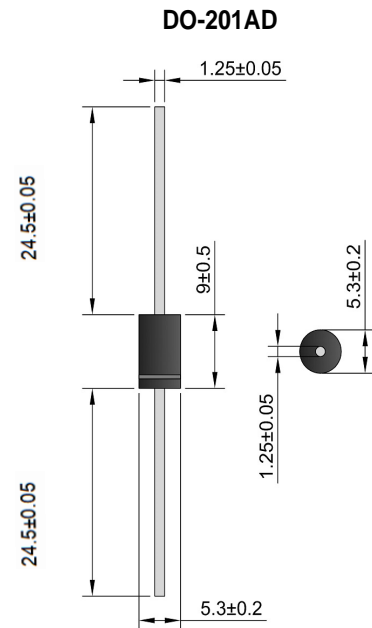
#### Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Glass passivation junction chip inside.

#### Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**



#### Maximum Ratings and Electrical Characteristics

@ $T_A=25^{\circ}\text{C}$  unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	1N 5400G	1N 5401G	1N 5402G	1N 5404G	1N 5406G	1N 5407G	1N 5408G	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	$V_{RWM}$								
DC Blocking Voltage	$V_R$								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_A = 75^{\circ}\text{C}$	$I_O$	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	120							A
Forward Voltage @ $I_F = 3.0\text{A}$	$V_{FM}$	1.0							V
Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^{\circ}\text{C}$	$I_{RM}$	5.0 100							$\mu\text{A}$
Typical Junction Capacitance (Note 2)	$C_J$	30							pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{JA}$	20							$^{\circ}\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-65 to +125							$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150							$^{\circ}\text{C}$

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

Fig. 1 Forward Current Derating Curve

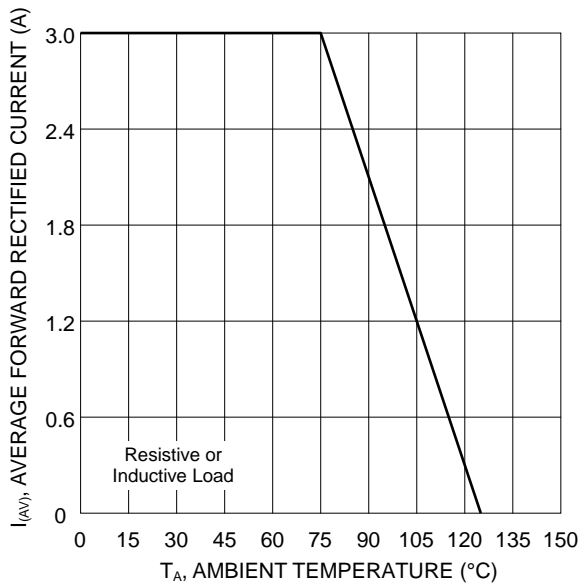


Fig. 2 Typical Forward Characteristics

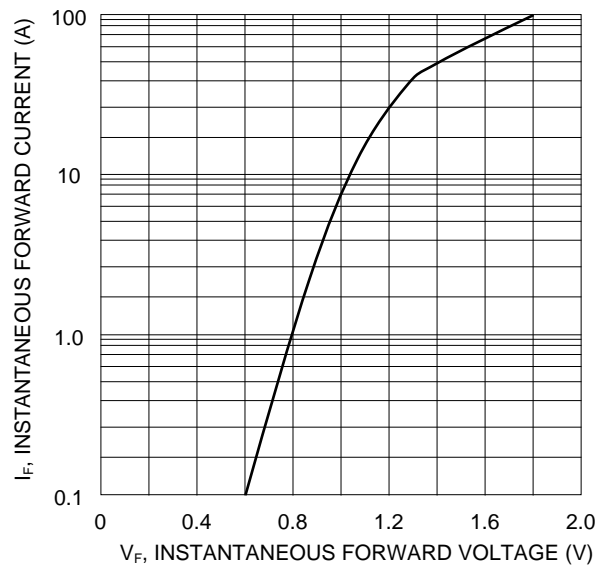


Fig. 3 Forward Surge Current Derating Curve

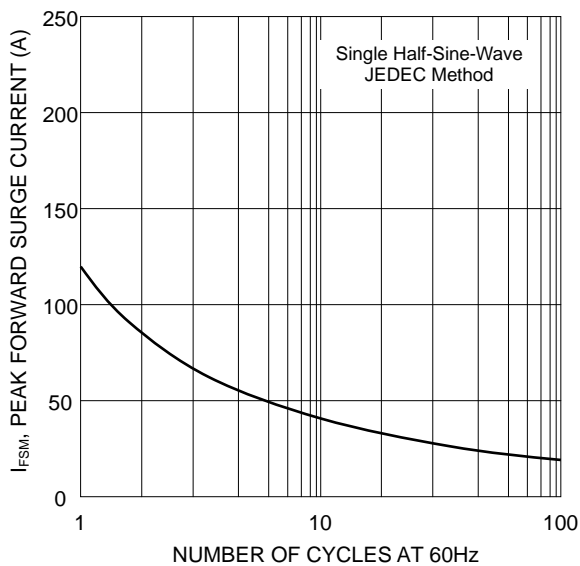


Fig. 4 Typical Reverse Characteristics

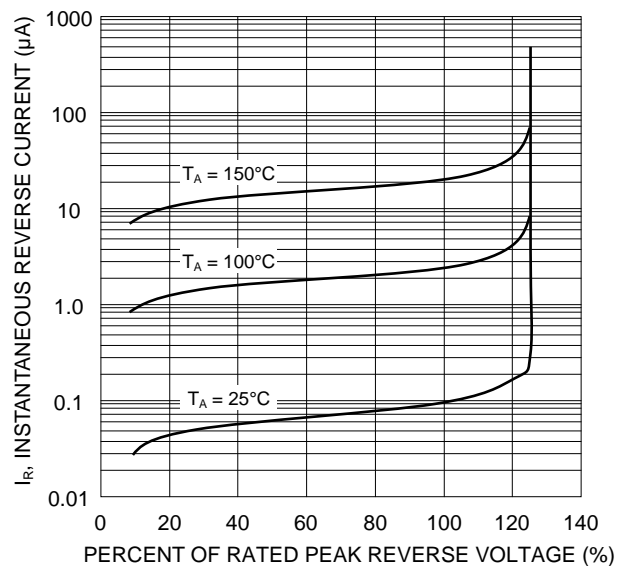
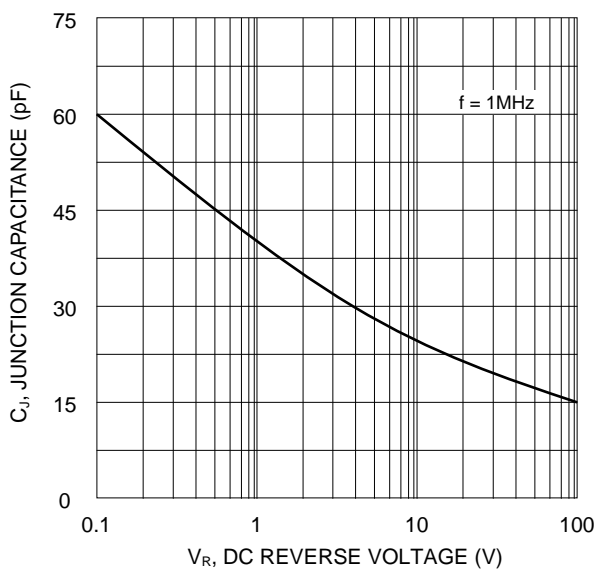
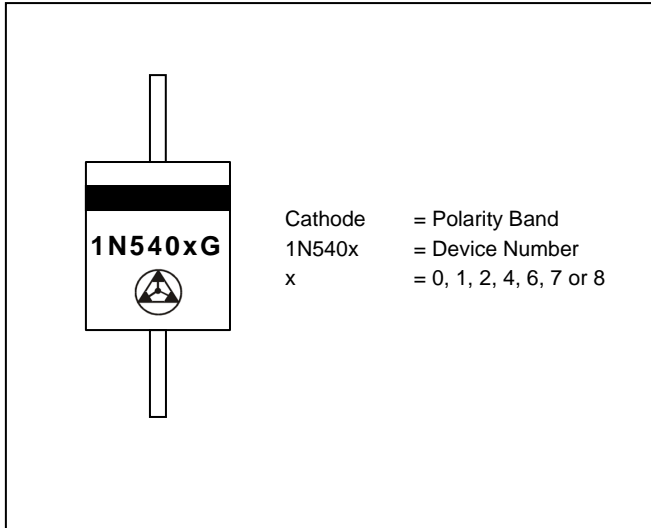
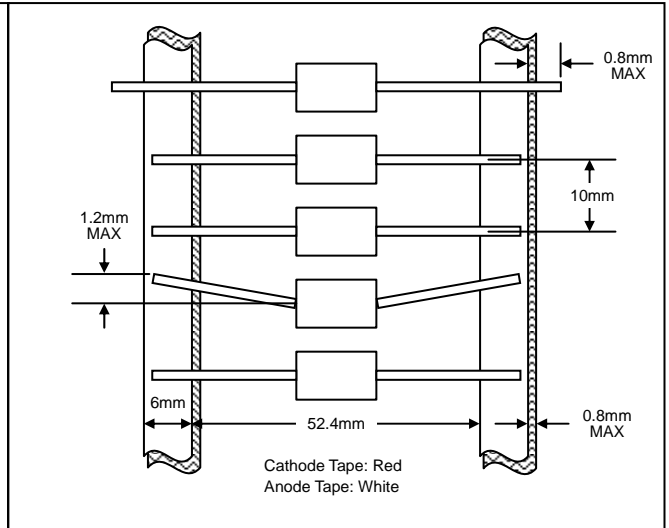
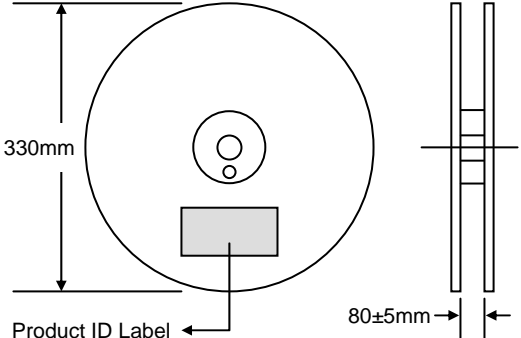


Fig. 5 Typical Junction Capacitance



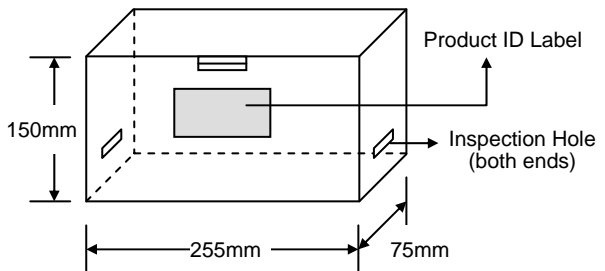
**MARKING INFORMATION**

**TAPING SPECIFICATIONS**

**PACKAGING INFORMATION**

**TAPE & REEL**



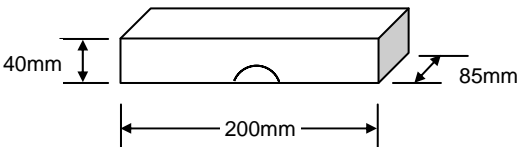
330mm  
 Product ID Label  
 80±5mm

**TAPE & BOX**



150mm  
 Product ID Label  
 Inspection Hole (both ends)  
 255mm  
 75mm

**BULK**



40mm  
 200mm  
 85mm

Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
<b>TAPE &amp; REEL</b>	330	1,200	370 x 370 x 420	6,000	10.0
<b>TAPE &amp; BOX</b>	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
<b>BULK</b>	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

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