

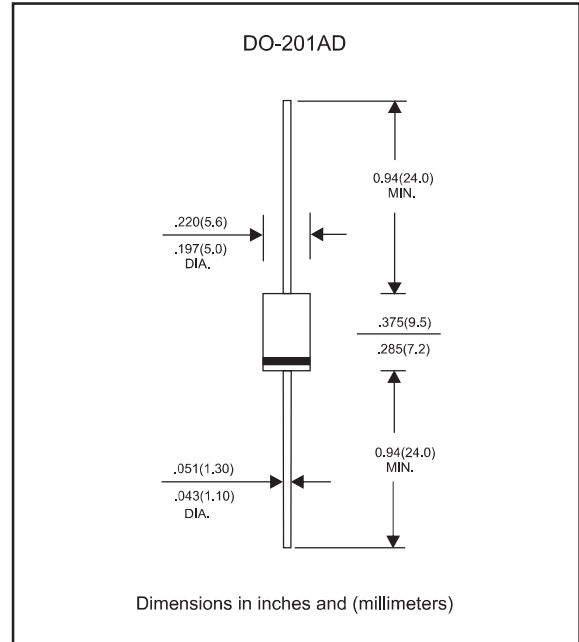
### Features

- Axial lead type devices for through hole design.
- High current capability.
- High surge capability.
- Glass passivation junction chip inside.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

### Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, DO-201AD
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any

### Package outline

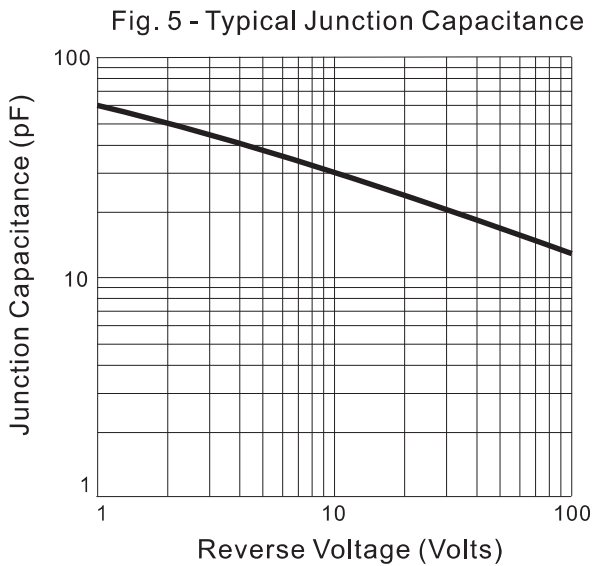
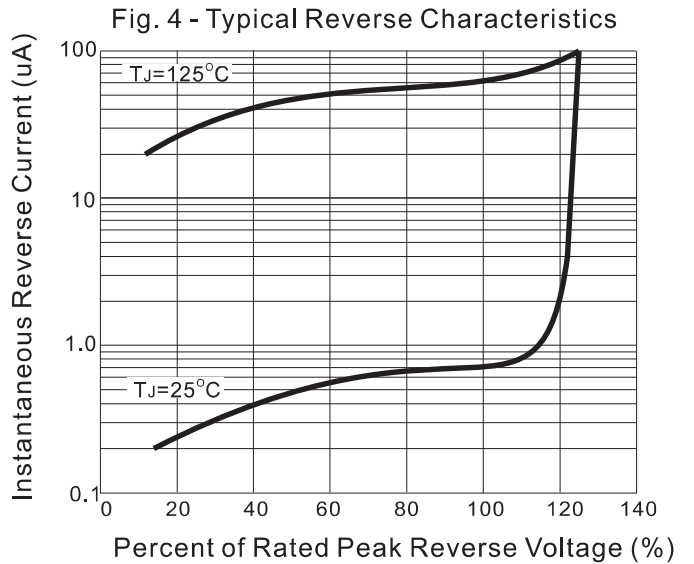
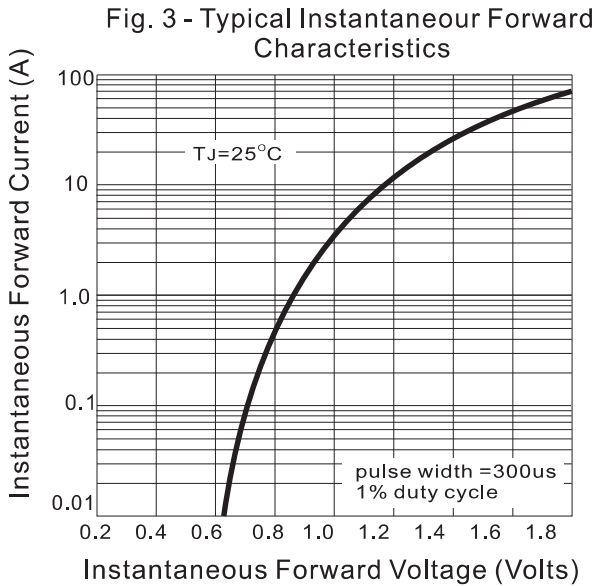
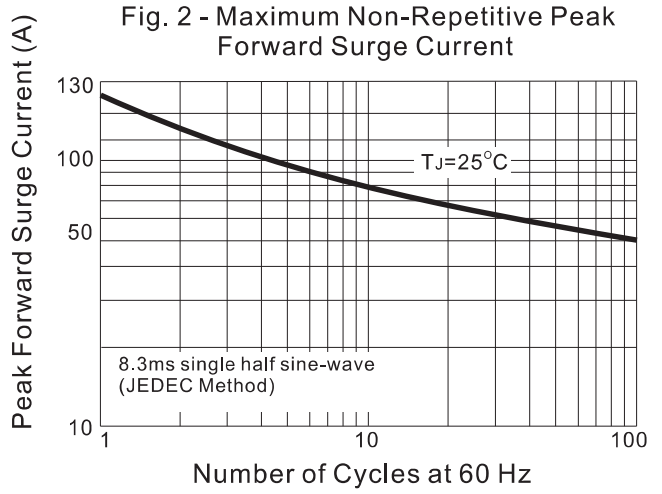
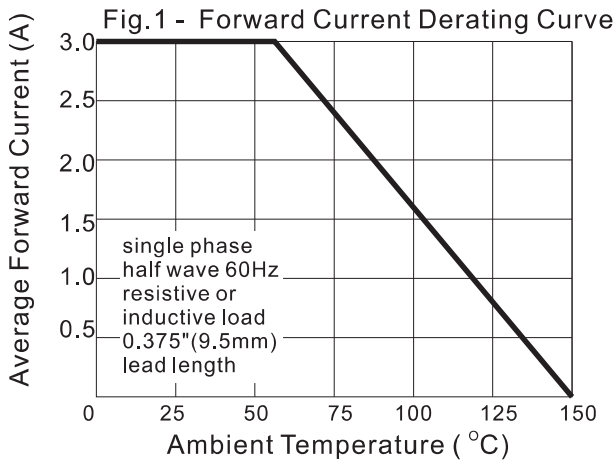


### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

|                                                                                                           | SYMBOLS         | 1N5400G     | 1N5401G | 1N5402G | 1N5403G | 1N5404G | 1N5405G | 1N5406G | 1N5407G | 1N5408G | UNITS              |
|-----------------------------------------------------------------------------------------------------------|-----------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| Maximum repetitive 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<br>0.375" (9.5mm) lead length at $T_A=75^\circ\text{C}$         | $I_{(AV)}$      | 3.0         |         |         |         |         |         |         |         |         | A                  |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on<br>rated load (JEDEC Method)    | $I_{FSM}$       | 125         |         |         |         |         |         |         |         |         | A                  |
| Maximum instantaneous forward voltage at 3.0A                                                             | $V_F$           | 1.1         |         |         |         |         |         |         |         |         | V                  |
| Maximum DC reverse current $T_A=25^\circ\text{C}$<br>at rated DC blocking voltage $T_A=125^\circ\text{C}$ | $I_R$           | 5.0<br>50   |         |         |         |         |         |         |         |         | $\mu\text{A}$      |
| Typical junction capacitance (NOTE 1)                                                                     | $C_J$           | 40.0        |         |         |         |         |         |         |         |         | pF                 |
| Typical thermal resistance (NOTE 2)                                                                       | $R_{\theta JA}$ | 30.0        |         |         |         |         |         |         |         |         | $^\circ\text{C/W}$ |
| Operating junction and storage temperature range                                                          | $T_J, T_{STG}$  | -55 to +150 |         |         |         |         |         |         |         |         | $^\circ\text{C}$   |

- Note:** 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted

**Rating and characteristic curves**



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