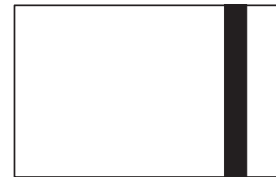
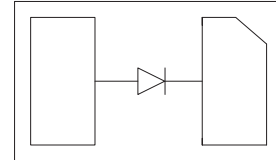


»Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



»General Description

- Case: molded plastic
- Package: DFN1610-2L Plastic Package

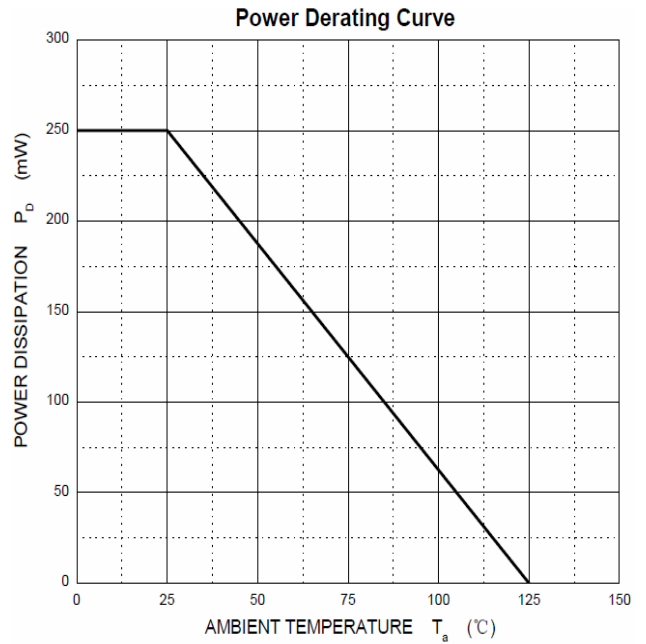
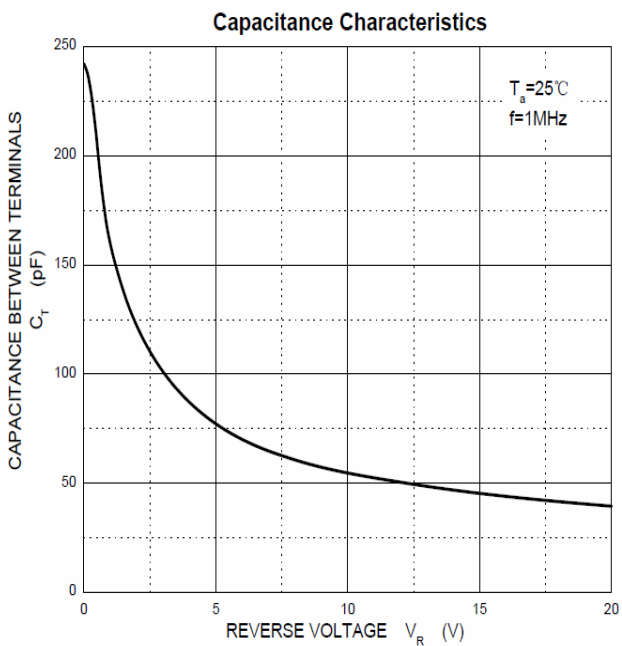
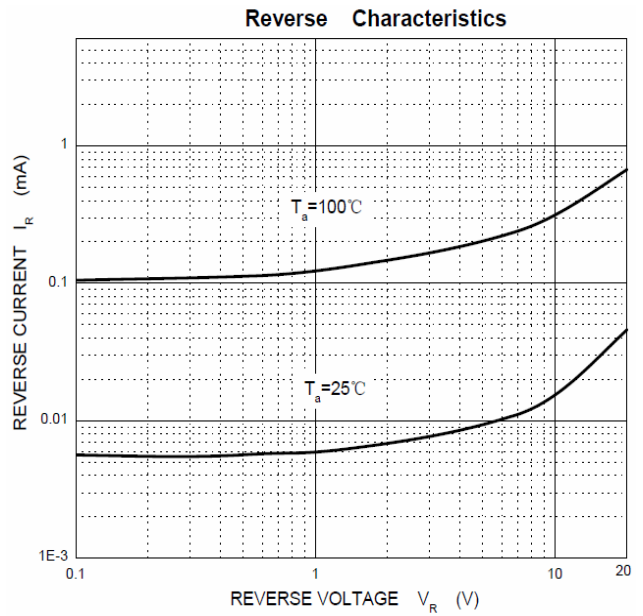
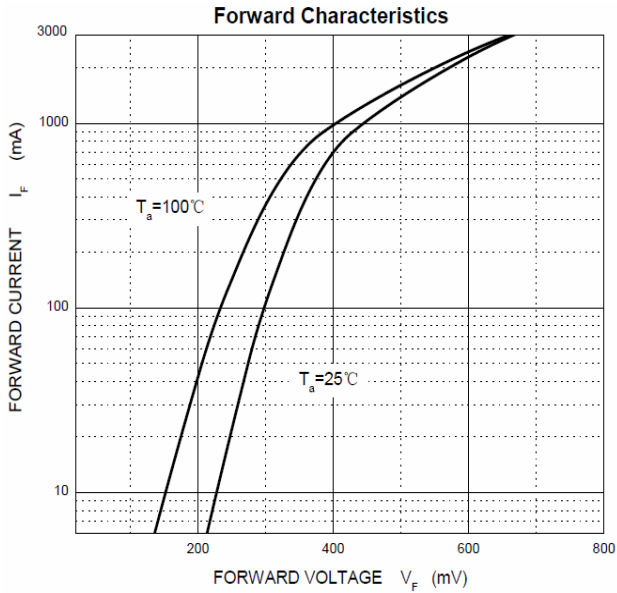
» Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

| Parameters | Symbol | BN5A1V40 | Unit |
|---|----------------|----------|-----------------------------|
| Maximum repetitive peak reverse voltage | VRRM | 40 | V |
| Maximum RMS voltage | VRMS | 28 | V |
| Maximum DC blocking voltage | VDC | 40 | V |
| Maximum average forward rectified current | IFM | 1.0 | A |
| Peak forward surge current 8.3 ms single half sine-wave | IFSM | 9.0 | A |
| Power Dissipation | PD | 250 | mW |
| typical thermal resistance | R θ JA | 400 | $^{\circ}\text{C}/\text{W}$ |
| Operating junction temperature | T _j | 125 | $^{\circ}\text{C}$ |
| Storage temperature range | TSTG | -50-+150 | $^{\circ}\text{C}$ |

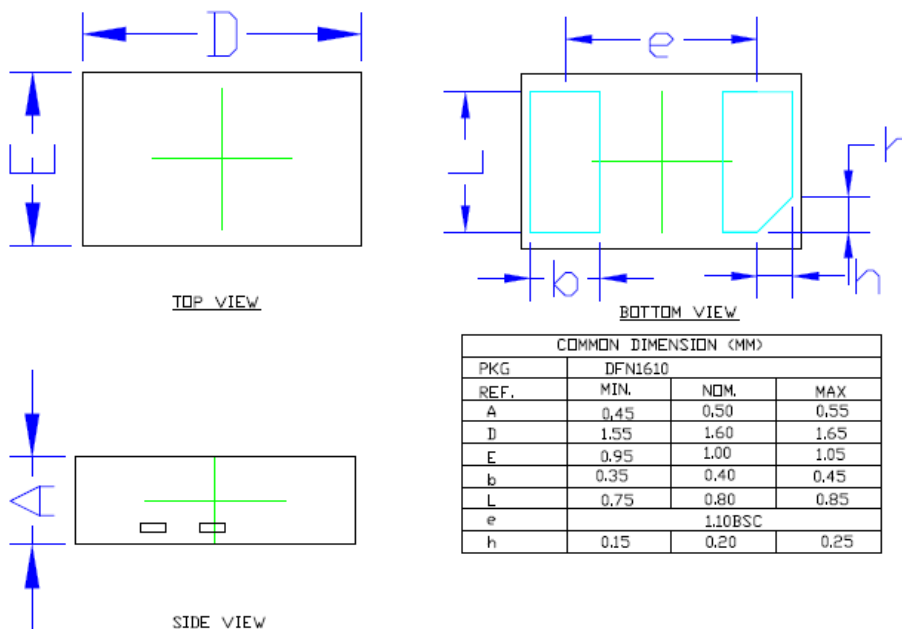
» **Electrical Characteristics** @ $T_A=25^{\circ}\text{C}$ unless otherwise noted

| Parameters | Symbol | Test conditions | BN5A1V40 | Unit |
|-----------------------------------|----------|---|----------|---------------|
| Maximum forward voltage | V_F | $I_F = 1.0\text{A}$ | 0.6 | V |
| Maximum reverse breakdown voltage | V_R | $I_R=1\text{mA}$ | 40 | V |
| Maximum reverse current | I_R | $V_R=40\text{V}$ | 100 | μA |
| Type junction capacitance | C_j | $V_R = 4\text{V}, f = 1\text{MHz}$ | 120 | pF |
| Reverse recovery time | T_{rr} | $I_F=I_R=10\text{mA},$ $I_{rr}=0.1 \times I_R, R_L=100 \Omega$ | 15 | ns |

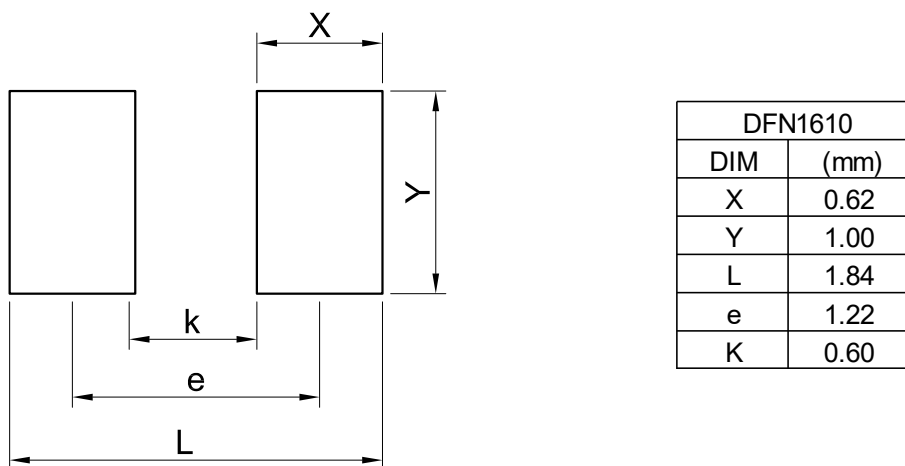
»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)



»Package Information



»Layout Information



»Ordering information

| Order code | Package | Marking | Base qty | Delivery mode |
|------------|------------|---------|----------|---------------|
| BN5A1V40 | DFN1610-2L | 1V40 | 10K | Tape and reel |

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