

»Features

- Low Forward Voltage
- Extremely Fast Switching Speed
- Surface Mount Pack age Ideally Suited for Automatic Insertion Protection



DFN1006

»Mechanical Data

- DFN1006 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

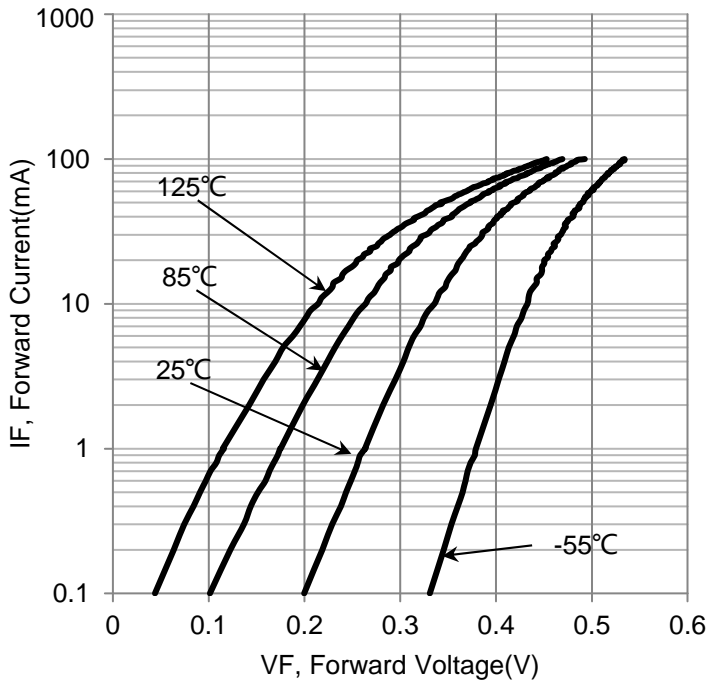
»Absolute Maximum Rating

| Rating                                  | Symbol           | Value          | Units |
|---|------------------|----------------|-------|
| Reverse Voltage                         | VR               | 40             | V     |
| Total Device Dissipation                | PD               | 150            | mW    |
| Thermal Resistance, Junction-to-Ambient | RθJA             | 400            | °C/W  |
| Lead Soldering Temperature              | T <sub>L</sub>   | 260(10seconds) | °C    |
| Junction Temperature                    | T <sub>J</sub>   | 110            | °C    |
| Storage Temperature                     | T <sub>stg</sub> | -40 to + 150   | °C    |

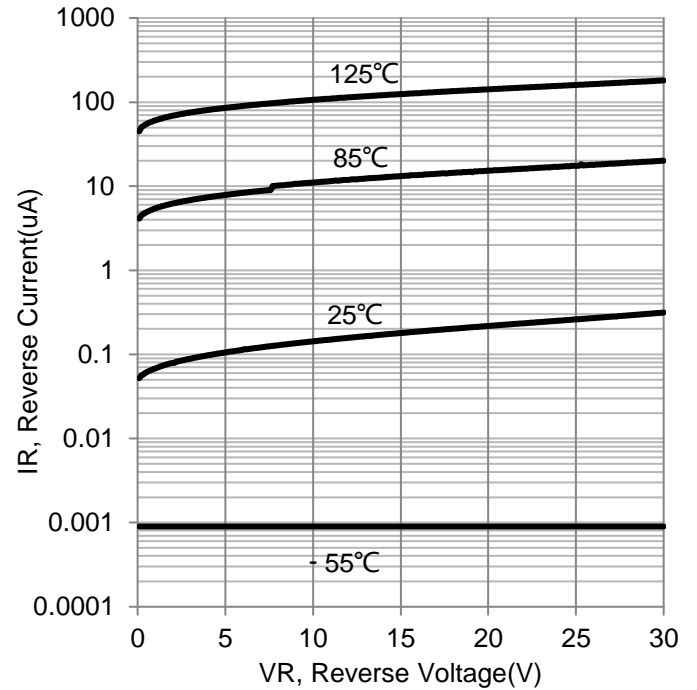
»Electrical Characteristics

| Parameter                 | Symbol         | Conditions                             | Min | Typical              | Max                  | Units |
|---------------------------|----------------|--|-----|----------------------|----------------------|-------|
| Reverse Breakdown Voltage | VBR            | I <sub>T</sub> =10μA                   | 40  |                      |                      | V     |
| Diode Capacitance         | C <sub>j</sub> | V <sub>R</sub> = 1.0V, f = 1MHz        |     | 75                   |                      | pF    |
| Reverse Leakage Current   | I <sub>R</sub> | V <sub>R</sub> =10V,T=25°C             |     |                      | 30                   | uA    |
| Forward Voltage           | V <sub>F</sub> | IF = 1 mA<br>IF = 20 mA<br>IF = 200 mA |     | 0.22<br>0.34<br>0.65 | 0.35<br>0.50<br>0.70 | V     |
| Reverse Recovery Time     | trr            | IF = 10 mA.<br>Ir=0.1IR,RL=100Ω        |     |                      | 5                    | ns    |

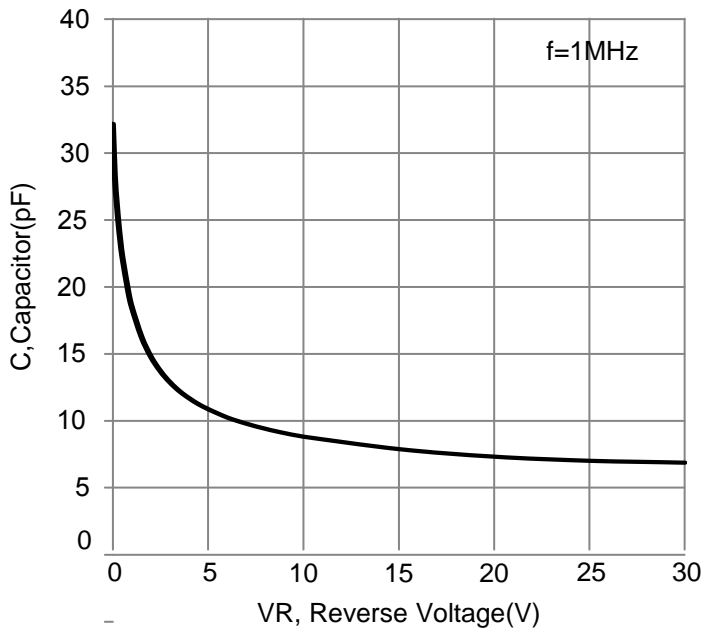
»ELECTRICAL CHARACTERISTICS CURVES



FORWARD CHARACTERISTICS

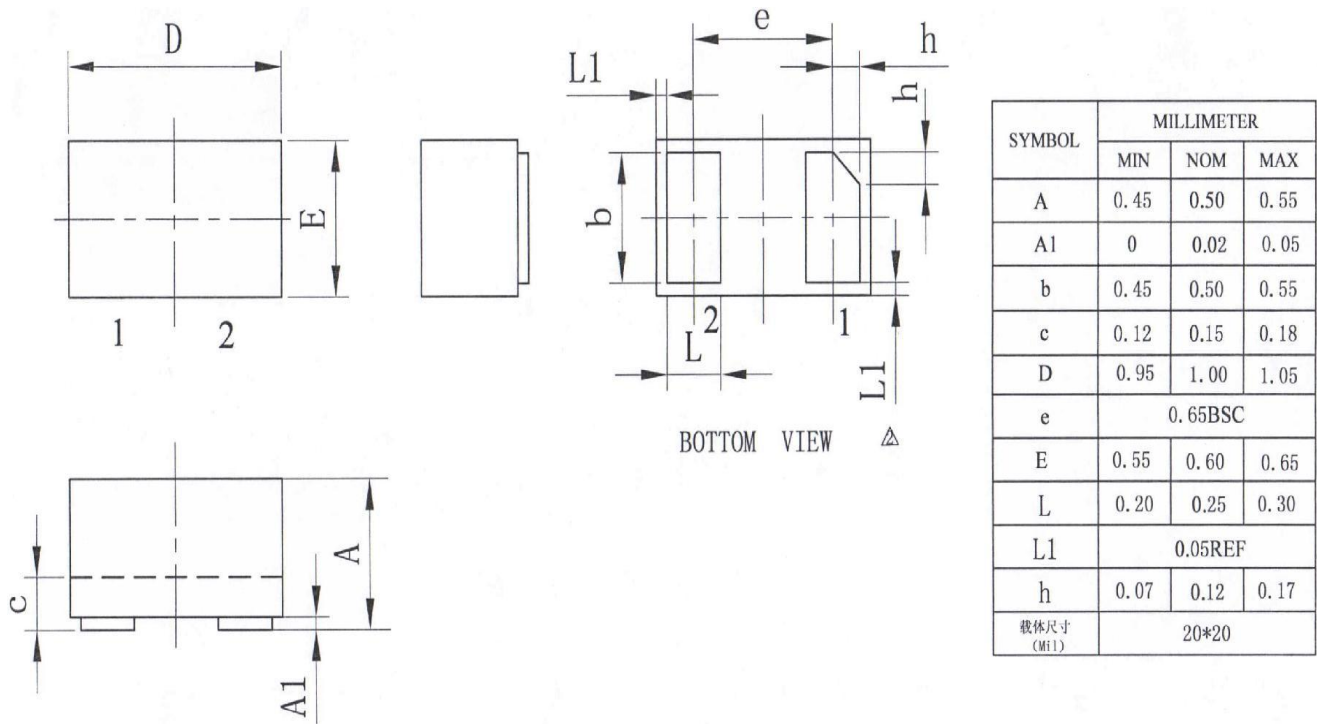


REVERSE CHARACTERISTICS

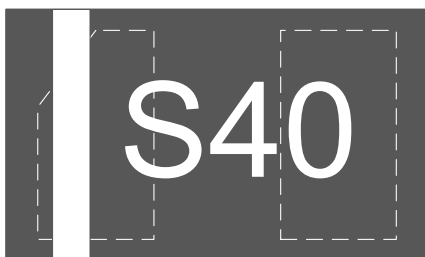


VR-CT CHARACTERISTICS

»Outline Drawing – DFN1006



»Marking



»Ordering information

| Order code | Package | Base qty | Delivery mode |
|------------|---------|----------|---------------|
| BSK1401    | DFN1006 | 10K      | Tape and reel |

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