



BAT54FN2

Surface Mount Schottky Barrier

Voltage

30 V

Current

0.2 A

Features

- Low turn-on voltage
- Fast switching
- PN junction guard ring for transient and ESD protection
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | LIMIT | UNITS |
|---|--------------------|---------|-------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 30 | V |
| Maximum Average Forward Current at T _A = 75 °C | I _{F(AV)} | 0.2 | A |
| Peak Forward Surge Current : 1s | I _{FSM} | 0.6 | A |
| Junction Capacitance at V _R = 1 V | C _J | 25 | pF |
| Thermal Resistance, Junction to Ambient | R _{θJA} | 400 | °C/W |
| Operating Junction Temperature Range | T _J | -55~125 | °C |
| Storage Temperature Range | T _{STG} | -55~125 | °C |



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Electrical Characteristics (T_A = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|---|------|------|------|-------|
| Forward Voltage | V _F | I _F = 1 mA, T _J = 25 °C | - | - | 0.32 | V |
| | | I _F = 100 mA, T _J = 25 °C | - | - | 0.6 | |
| Reverse Current | I _R | V _R = 25 V, T _J = 25 °C | - | - | 2 | μA |



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TYPICAL CHARACTERISTIC CURVES

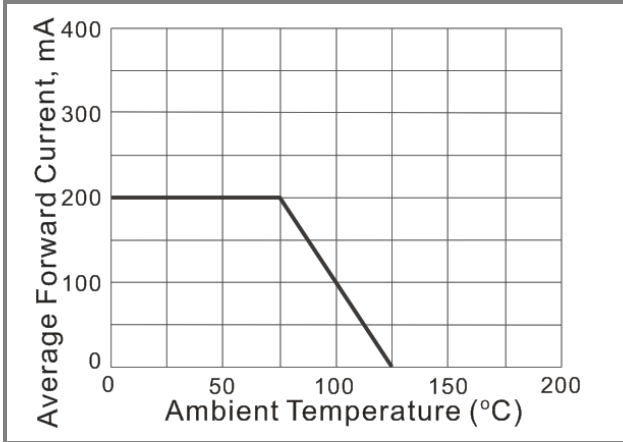


Fig.1 Forward Current Derating Curve

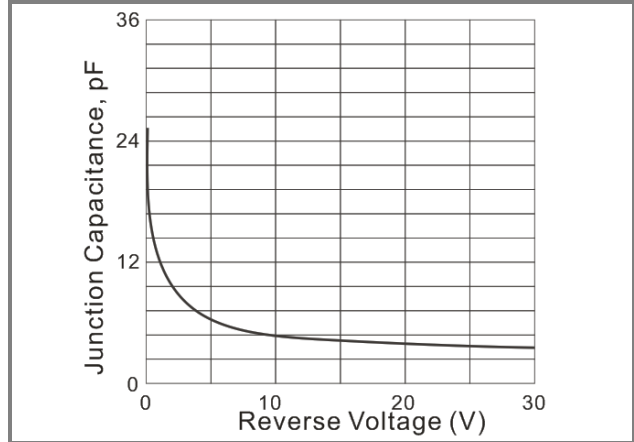


Fig.2 Typical Junction Capacitance

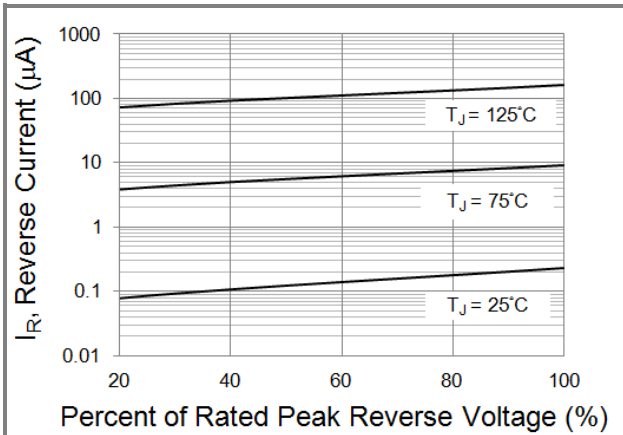


Fig.3 Typical Reverse Characteristics

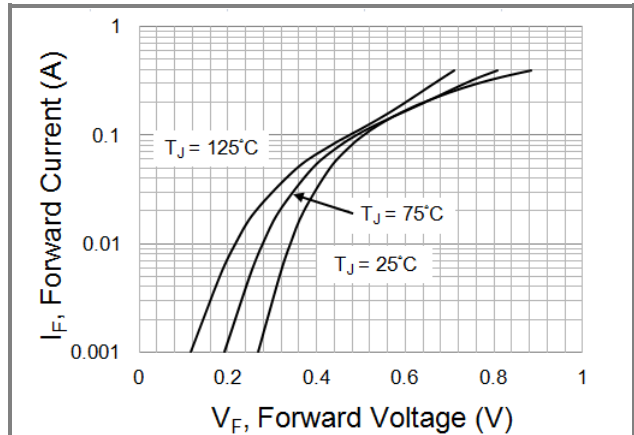


Fig.4 Typical Forward Characteristics

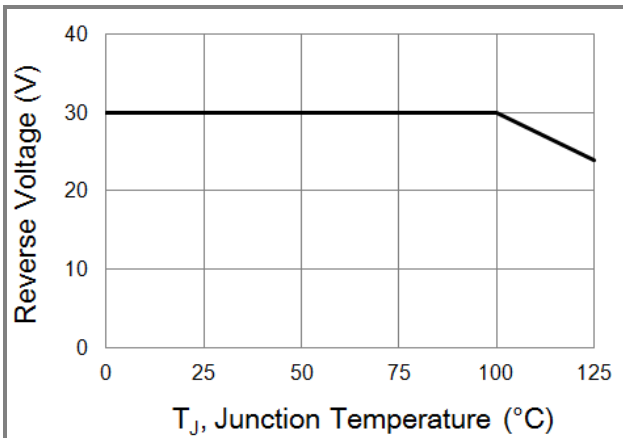


Fig.5 Operating Temperature Derating Curve

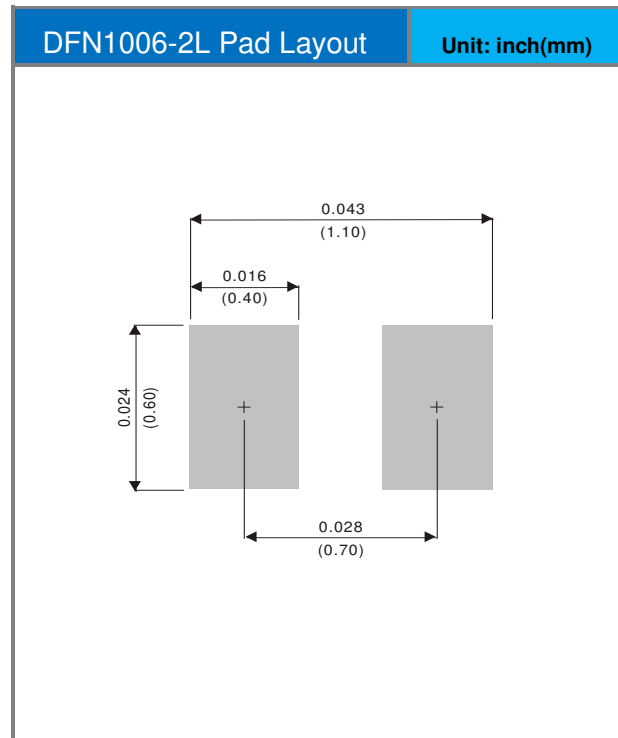
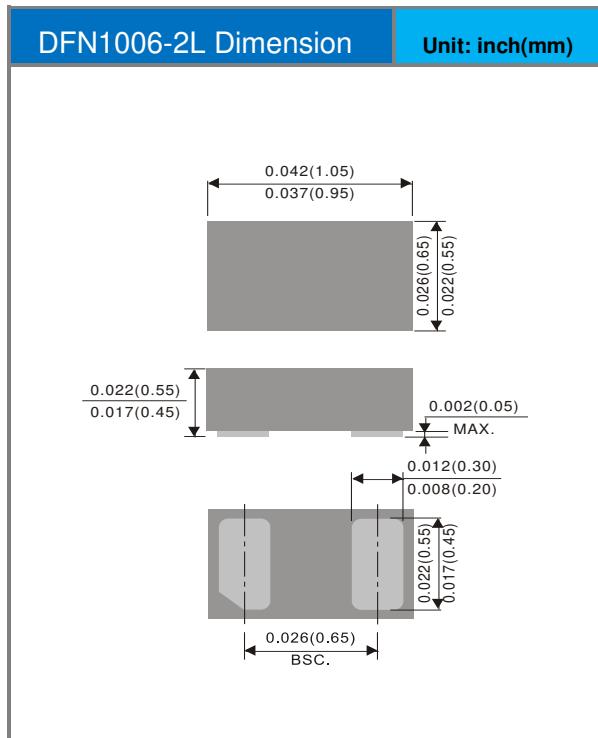


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Product and Packing Information

| Part No. | Package Type | Packing Type | Marking | Version |
|----------|--------------|-------------------|---------|--------------------------------|
| BAT54FN2 | DFN1006-2L | 10K pcs / 7" Reel | BN | Halogen free RoHS compliant |

Packaging Information & Mounting Pad Layout





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