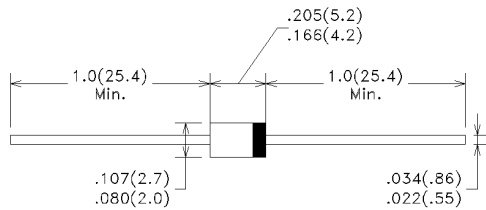


Axial Super Fast Recovery Rectifier 1.0 A / 600 V

Package Outline Dimensions in mm (inches)

DO-41



Features

- High reliability
- Low forward voltage drop
- Ultrafast Recovery times for high efficiency
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in switching power Supplies.

Mechanical Data

- Case: DO-41 Plastic Package
- Polarity: Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

| Parameter | Symbol | BYV26C | Unit |
|--|--------|-----------|------|
| Maximum recurrent peak reverse voltage | VRRM | 600 | V |
| Maximum RMS voltage | VRMS | 420 | V |
| Maximum DC blocking voltage | VDC | 600 | V |
| Maximum average forward rectified current | IF(AV) | 1.0 | A |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 30 | A |
| Storage temperature range | TS | -55 ~ 150 | °C |
| Operating Junction temperature range | Tj | -55 ~ 150 | °C |
| Thermal Resistance | RthJA | 65 | °C/W |

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

| Parameter | Test Conditions | Symbol | BYV26C | Unit |
|---|-----------------|--------|--------|------|
| Maximum forward voltage | IF=1.0 A | VF | 1.7 | V |
| Maximum DC reverse current at rated DC blocking voltage | TA=25°C | IR | 5.0 | μA |
| | TA=100°C | | 100 | |
| Maximum Reverse Recovery Time | RG1 | Trr | 35 | ns |

Characteristics Curves

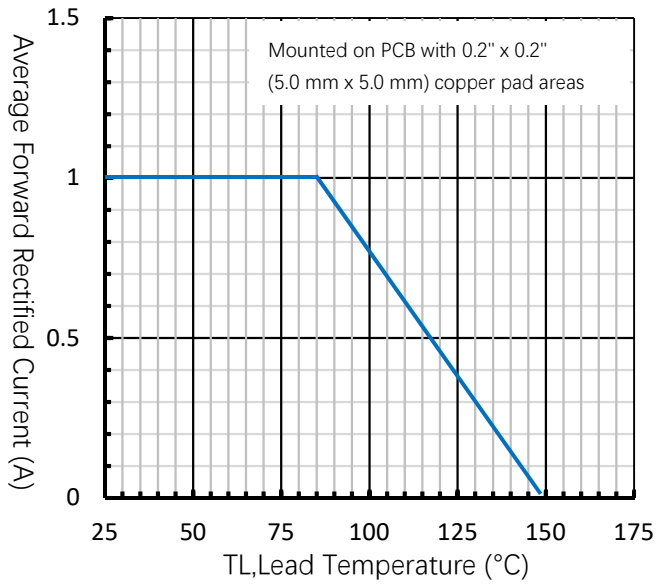


Fig.1 Forward Current Derating Curve

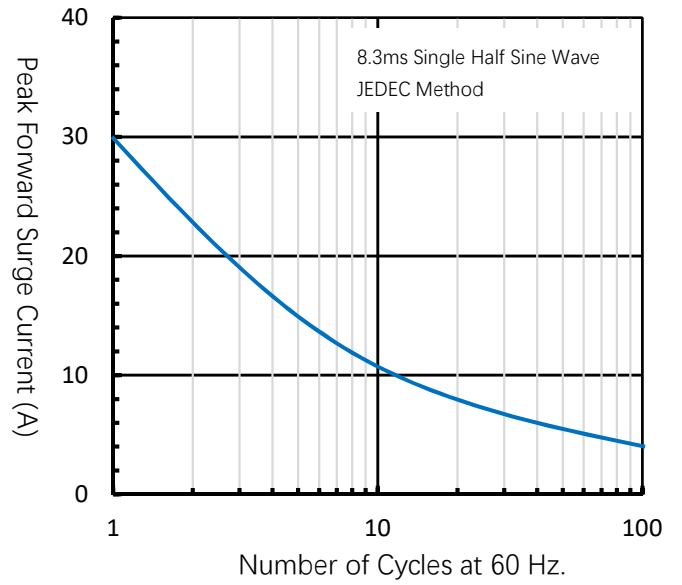


Fig.2 Forward Surge Current Capability

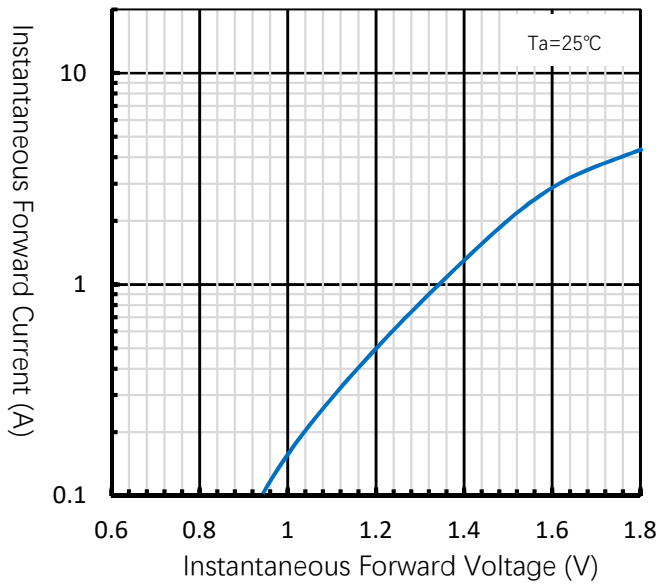


Fig. 3 Typical Forward Characteristic

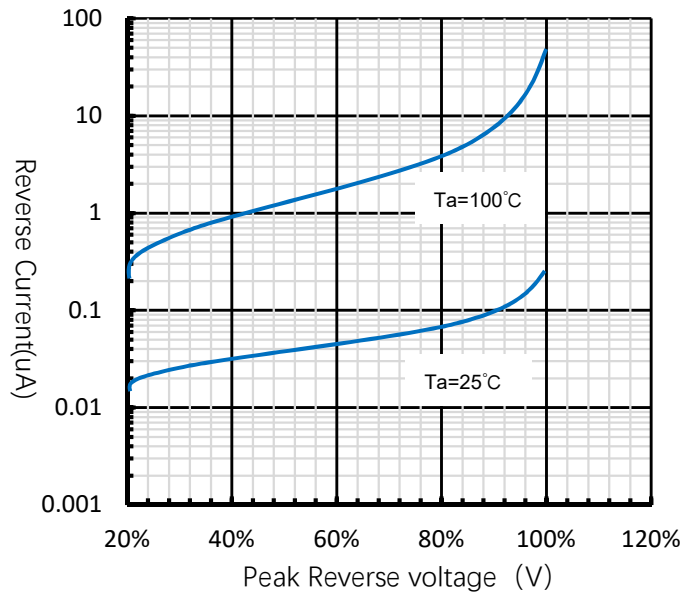


Fig. 4 Typical Reverse Characteristics