

1 Amp. Very Fast Soft Recovery Glass Passivated Avalanche Diode

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| <p>Dimensions in mm.</p> <p>DO-41 (Plastic)</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body. | <p>Voltage 200 to 1000 V.</p> <p>Current 1 A at 55 °C.</p> |
| | <ul style="list-style-type: none"> • Glass Passivated Junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode |

Maximum Ratings, according to IEC publication No. 134

| | | BYV26A | BYV26B | BYV26C | BYV26D | BYV26E |
|-------------|--|------------------|--------|--------|--------|--------|
| V_{RRM} | Peak Recurrent reverse voltage (V) | 200 | 400 | 600 | 800 | 1000 |
| V_{RMS} | Maximum RMS voltage | 140 | 280 | 420 | 560 | 700 |
| V_{DC} | Maximum DC blocking voltage | 200 | 400 | 600 | 800 | 1000 |
| $I_{F(AV)}$ | Forward current at $T_{amb} = 55\text{ °C}$ | 1 A | | | | |
| I_{FRM} | Recurrent peak forward current | 10 A | | | | |
| I_{FSM} | 10 ms. peak forward surge current | 30 A | | | | |
| t_{TR} | Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$ | 30 ns | | | 75 ns | |
| V_{BR} | Avalanche breakdown voltage at $100\text{ }\mu\text{A}$ (V) | >300 | >500 | >700 | >900 | >1100 |
| T_j | Operating temperature range | - 65 to + 175 °C | | | | |
| T_{stg} | Storage temperature range | - 65 to + 175 °C | | | | |
| E_{RSM} | Maximum non repetitive peak reverse avalanche energy. $I_R = 0.5\text{ A}$; $T_j = 25\text{ °C}$ | 20 mJ | | | | |

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

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|-------------|---|-----------------------------|--------------------------------|
| V_F | Max. forward voltage drop at $I_F = 1\text{ A}$ | at 25 °C 2.5 V | at 175 °C 1.3 V |
| I_R | Max. reverse current at V_{RRM} | at 25 °C 5 μA | at 165 °C 150 μA |
| R_{thj-a} | Max. thermal resistance (l = 10 mm.) | 50 °C/W | |

Rating And Characteristic Curves

