

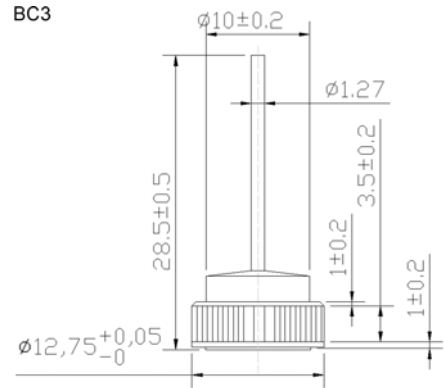
Technical Specification:

Features:

- ◆ Low leakage
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ High forward surge current capability

Mechanical Data:

- ◆ Technology: Vacuum soldered
- ◆ Case: Copper case
- ◆ Polarity: As marked of case bottom
- ◆ Lead: Plated lead, solderable per MIL-STD-202E method 208C
- ◆ Mounting: Press Fit
- ◆ Weight: 0.229 ounces 6.48 grams



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

- ◆ Rating at 25°C ambient temperature unless otherwise specified.
- ◆ Single phase, half wave, 60Hz, resistive or inductive load.
- ◆ For capacitive load derate current by 20%.

| Parameters | Symbols | GABJ501 | GABJ502 | GABJ503 | GABJ504 | GABJ506 | Units |
|--|-----------------|-------------|---------|---------|---------|---------|----------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 100 | 200 | 300 | 400 | 600 | Volts |
| Maximum RMS voltage | V_{RMS} | 70 | 140 | 210 | 280 | 420 | Volts |
| Maximum DC blocking voltage | V_{DC} | 100 | 200 | 300 | 400 | 600 | Volts |
| Maximum Average rectified forward current at $T_C=105^\circ\text{C}$ | $I_{T(AV)}$ | 50 | | | | | Amps |
| Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 600 | | | | | Amps |
| Rating for fusing ($t < 8.3\text{mS}$) | Pt | 1494 | | | | | A^2S |
| Maximum instantaneous forward voltage drop at 100A | V_F | 1.08 | | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=150^\circ\text{C}$ | I_R | 5.0 450 | | | | | μA |
| Typical thermal resistance | $R_{\theta JL}$ | 0.8 | | | | | $^\circ\text{C/W}$ |
| Operating and storage temperature range | T_J, T_{STG} | -65 to +175 | | | | | $^\circ\text{C}$ |

Notes: 1. Enough heatsink must be considered in application.

■ Ratings and Characteristic Curves

