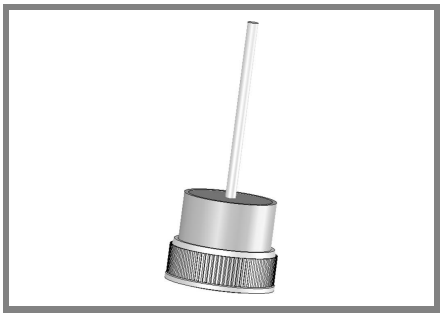
# BYP 25A05 ... BYP 25K6



| Type | Wired to ANODE | Wired to CATHODE | Repetitive peak reverse voltage $V_{RRM}$ V | Surge peak reverse voltage $V_{RSM}$ V | Maximum forward voltage $T_j$ = 25 °C $I_F$ = 25 A $V_F$ V |
|---|---|---|---|---|---|
| BYP 25 | BYP 25A05 | BYP 25K05 | 50 | 60 | 1,1 |
| BYP 25 | BYP 25A1 | BYP 25K1 | 100 | 120 | 1,1 |
| BYP 25 | BYP 25A2 | BYP 25K2 | 200 | 240 | 1,1 |
| BYP 25 | BYP 25A3 | BYP 25K3 | 300 | 360 | 1,1 |
| BYP 25 | BYP 25A4 | BYP 25K4 | 400 | 480 | 1,1 |
| BYP 25 | BYP 25A6 | BYP 25K6 | 600 | 700 | 1,1 |

## Silicon Press-Fit-Diodes

**BYP 25A05...BYP 25K6**

**Forward Current: 25 A**

**Reverse Voltage: 50 to 600 V**

Publish Data

### Features

- max. solder temperature 260°C, max. 5s
- UL classification 94V-0
- Standard packaging: bulk

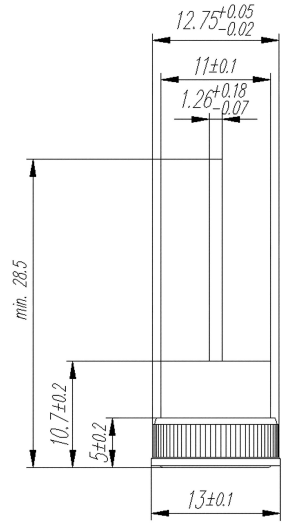
### Mechanical Data

- Weight approx. 8 g
- Metal press-fit case with plastic cover
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position : any

| **Absolute Maximum Ratings** | | $T_c$ = 25 °C, unless otherwise specified | |
|---|---|---|---|
| **Symbol** | **Conditions** | **Values** | **Units** |
| $I_{FAV}$ | Max. averaged fwd. current, R-load, $T_c$ = 150 °C | 25 | A |
| $I_{FRM}$ | Repetitive peak forward current f > 15 Hz[1)] | 90 | A |
| $I_{FSM}$ | Peak fwd. surge current 50 Hz half sinus-wave | 270 | A |
| $I^2t$ | Rating for fusing, t < 10 ms | 375 | $A^2s$ |
| $R_{thA}$ | Thermal resistance junction to case | 1 | K/W |
| $T_j$ | Operating junction temperature | - 50 ... + 215 | °C |
| $T_s$ | Storage temperature | - 50 ... + 215 | °C |

| **Characteristics** | | $T_c$ = 25 °C, unless otherwise specified | |
|---|---|---|---|
| **Symbol** | **Conditions** | **Values** | **Units** |
| $I_R$ | Maximum leakage current, $T_A$ 25 °C; $V_R = V_{RRM}$ | 100 | µA |

Dimensions in mm



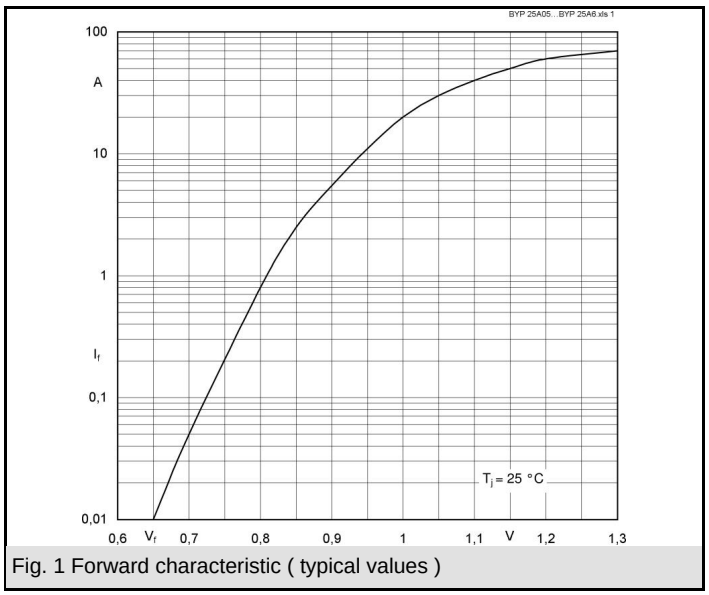



Fig. 1 Forward characteristic ( typical values )

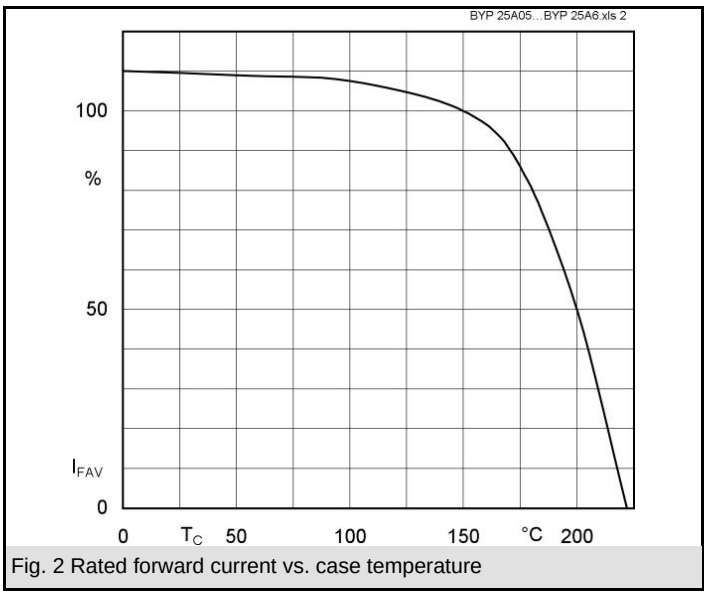



Fig. 2 Rated forward current vs. case temperature

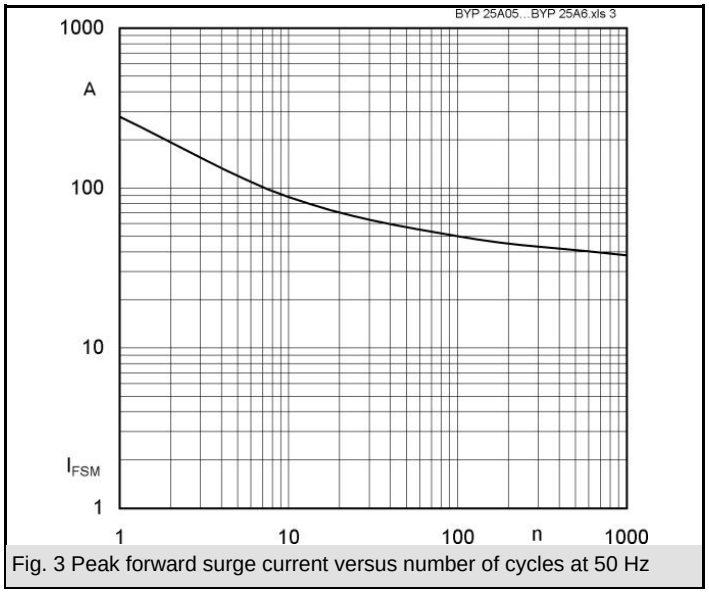



Fig. 3 Peak forward surge current versus number of cycles at 50 Hz