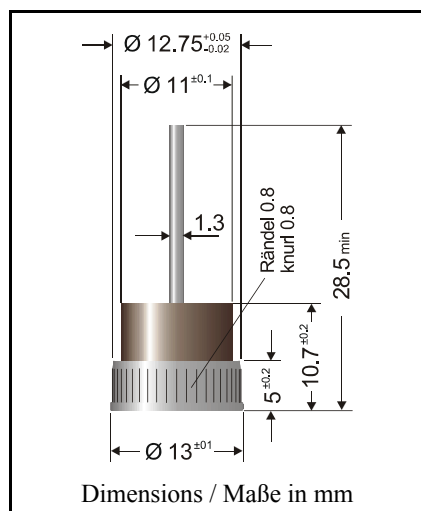


**Silicon Press-Fit-Diodes**  
**High-temperature diodes**

**Silizium-Einpreßdioden**  
**Hochtemperaturdioden**



Nominal current – Nennstrom 60 A  
 Repetitive peak reverse voltage 50...600 V  
 Periodische Spitzensperrespannung  
 Metal press-fit case with plastic cover  
 Metall-Einpreßgehäuse mit Plastik-Abdeckung  
 Weight approx. – Gewicht ca. 10 g  
 Casting compound has UL classification 94V-0  
 Vergußmasse UL94V-0 klassifiziert  
 Standard packaging: bulk  
 Standard Lieferform: lose im Karton

**Maximum ratings**

**Grenzwerte**

| Type / Typ         |           | Repetitive peak reverse voltage  | Surge peak reverse voltage |
|--------------------|-----------|----------------------------------|----------------------------|
| Wire to / Draht an |           | Periodische Spitzensperrespanng. | Stoßspitzensperrespannung  |
| Anode              | Cathode   | V <sub>RRM</sub> [V]             | V <sub>RSM</sub> [V]       |
| BYP 60A05          | BYP 60K05 | 50                               | 60                         |
| BYP 60A1           | BYP 60K1  | 100                              | 120                        |
| BYP 60A2           | BYP 60K2  | 200                              | 240                        |
| BYP 60A3           | BYP 60K3  | 300                              | 360                        |
| BYP 60A4           | BYP 60K4  | 400                              | 480                        |
| BYP 60A6           | BYP 60K6  | 600                              | 700                        |

Max. average forward rectified current, R-load  $T_C = 150^\circ\text{C}$   $I_{FAV}$  60 A  
 Dauergrenzstrom in Einwegschtung mit R-Last

Repetitive peak forward current  $f > 15\text{ Hz}$   $I_{FRM}$  120 A <sup>1)</sup>  
 Periodischer Spitzenstrom

Peak forward surge current, 50 / 60 Hz half sine-wave  $T_A = 25^\circ\text{C}$   $I_{FSM}$  450 / 500 A  
 Stoßstrom für eine 50 / 60 Hz Sinus-Halbwell

Rating for fusing – Grenzlantintegral,  $t < 10\text{ ms}$   $T_A = 25^\circ\text{C}$   $i^2t$  1000 A<sup>2</sup>s

Operating junction temperature – Sperrschichttemperatur  $T_j$  – 50...+215 °C  
 Storage temperature – Lagerungstemperatur  $T_s$  – 50...+215 °C

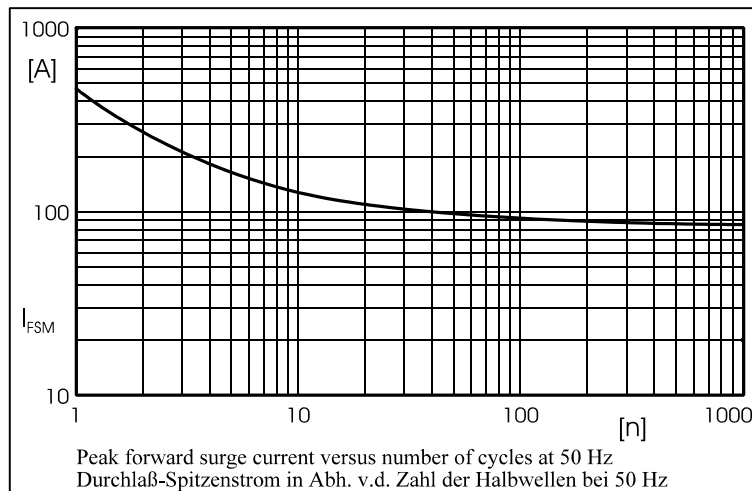
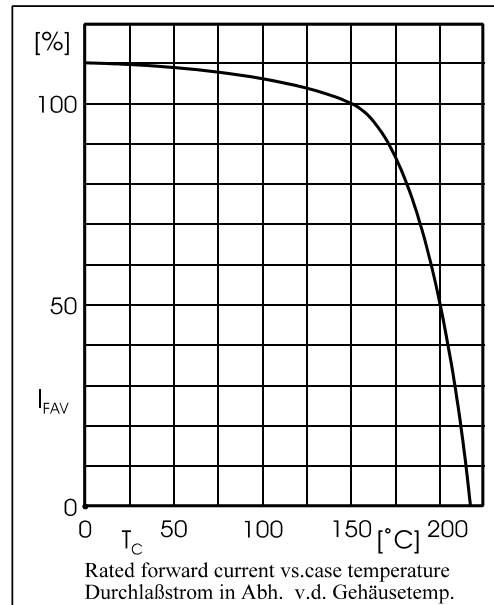
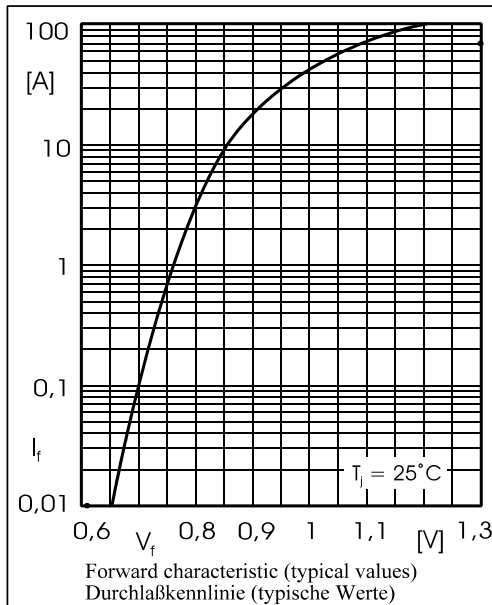
Maximum pressure – Maximaler Einpreßdruck 7 kN

<sup>1)</sup> Max. case temperature  $T_C = 150^\circ\text{C}$  – Max. Gehäusetemperatur  $T_C = 150$

## Characteristics

## Kennwerte

|                                                                               |                          |                     |           |                            |
|-------------------------------------------------------------------------------|--------------------------|---------------------|-----------|----------------------------|
| Forward voltage – Durchlaßspannung                                            | $T_j = 25^\circ\text{C}$ | $I_F = 60\text{ A}$ | $V_F$     | $< 1.1\text{ V}$           |
| Leakage current – Sperrstrom                                                  | $T_j = 25^\circ\text{C}$ | $V_R = V_{RRM}$     | $I_R$     | $< 100\text{ }\mu\text{A}$ |
| Thermal resistance junction to case<br>Wärmewiderstand Sperrschicht – Gehäuse |                          |                     | $R_{thC}$ | $< 0.6\text{ K/W}$         |



| Replacements / Ersatztypen |           |           |           |
|----------------------------|-----------|-----------|-----------|
| New - Neu                  | Old - Alt | New - Neu | Old - Alt |
| BYP 60K05                  | BYP70/60  | BYP 60A05 | BYP75/60  |
| BYP 60K1                   | BYP71/60  | BYP 60A1  | BYP76/60  |
| BYP 60K2                   | BYP72/60  | BYP 60A2  | BYP77/60  |
| BYP 60K3                   | BYP73/60  | BYP 60A3  | BYP78/60  |
| BYP 60K4                   | BYP74/60  | BYP 60A4  | BYP79/60  |