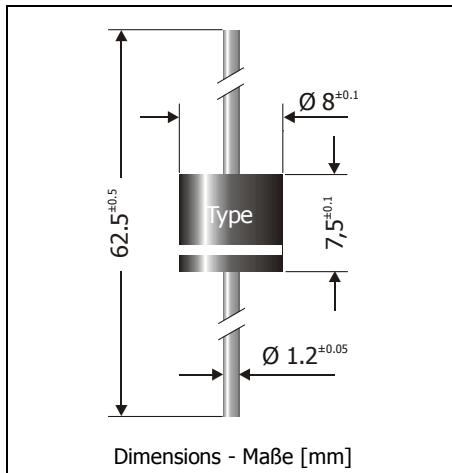


## P600A ... P600U

### Silicon Rectifier Diodes – Silizium-Gleichrichterdioden

Version 2011-07-15



Nominal Current  
Nennstrom 6 A

Repetitive peak reverse voltage  
Periodische Spitzensperrspannung 50...1400 V

Plastic case  
Kunststoffgehäuse  $\varnothing$  8 x 7.5 [mm]  
P600 Style

Weight approx.  
Gewicht ca. 1.3 g

Plastic material has UL classification 94V-0  
Gehäusematerial UL94V-0 klassifiziert

Standard packaging taped in ammo pack  
Standard Lieferform gegurtet in Ammo-Pack



#### Maximum ratings

#### Grenzwerte

| Type<br>Typ | Repetitive peak reverse voltage<br>Periodische Spitzensperrspannung<br>$V_{RRM}$ [V] | Surge peak reverse voltage<br>Stoßspitzensperrspannung<br>$V_{RSM}$ [V] |
|-------------|--|---|
| P600A       | 50   | 50  |
| P600B       | 100  | 100   |
| P600D       | 200  | 200   |
| P600G       | 400  | 400   |
| P600J       | 600  | 600   |
| P600K       | 800  | 800   |
| P600M       | 1000   | 1000  |
| P600S       | 1200   | 1200  |
| P600U       | 1400   | 1400  |

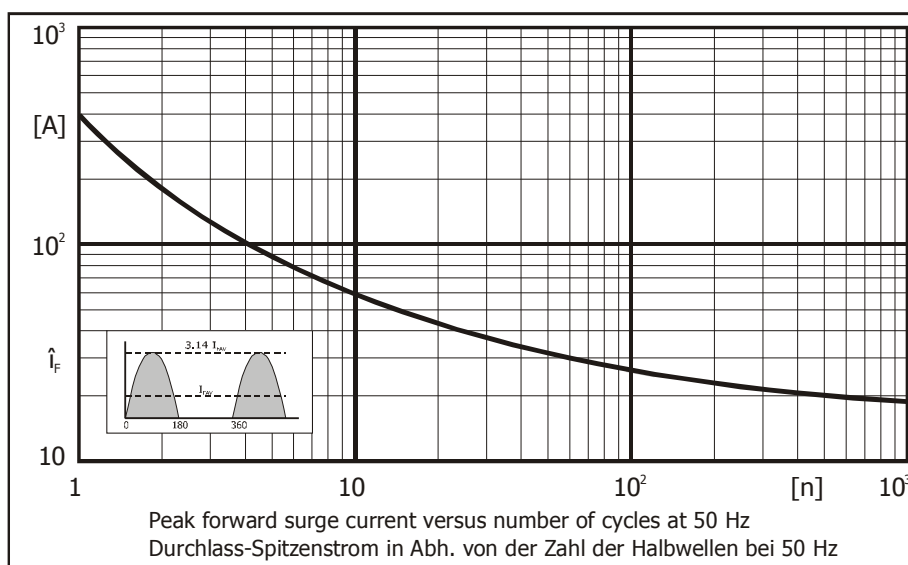
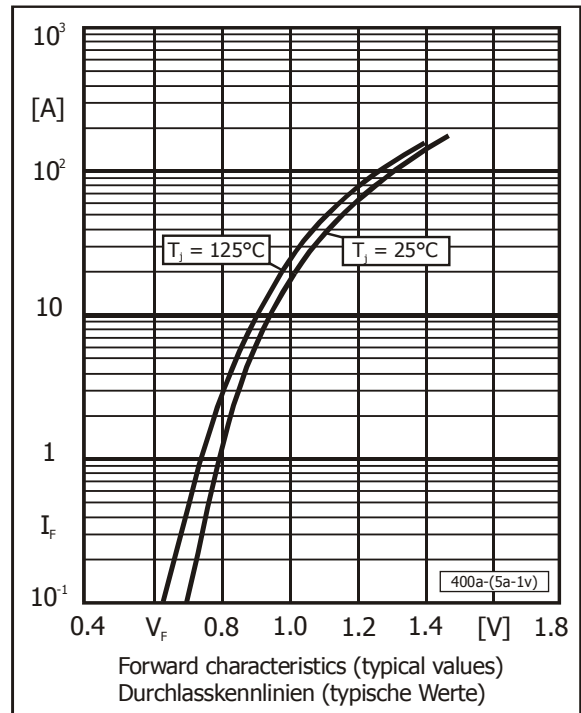
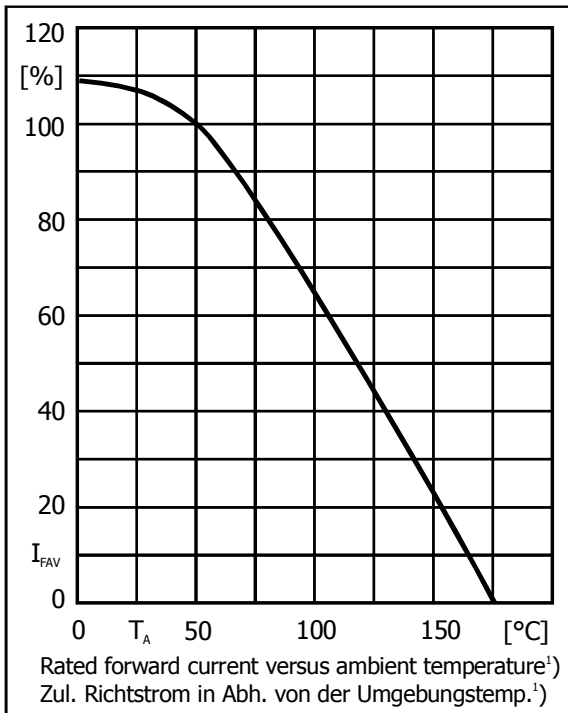
|   |                          |                |                              |
|---|--------------------------|----------------|------------------------------|
| Max. average forward rectified current, R-load<br>Dauergrenzstrom in Einwegschaltung mit R-Last     | $T_A = 50^\circ\text{C}$ | $I_{FAV}$      | 6 A <sup>1)</sup>            |
| Repetitive peak forward current<br>Periodischer Spitzenstrom  | $f > 15$ Hz              | $I_{FRM}$      | 60 A <sup>1)</sup>           |
| Peak forward surge current, 50/60 Hz half sine-wave<br>Stoßstrom für eine 50/60 Hz Sinus-Halbwellen | $T_A = 25^\circ\text{C}$ | $I_{FSM}$      | 400/450 A                    |
| Rating for fusing, Grenzlastintegral, $t < 10$ ms   | $T_A = 25^\circ\text{C}$ | $i^2t$         | 800 A <sup>2</sup> s         |
| Junction temperature – Sperrschichttemperatur<br>Storage temperature – Lagerungstemperatur          |                          | $T_j$<br>$T_s$ | -50...+175°C<br>-50...+175°C |

<sup>1</sup> Valid, if leads are kept at ambient temperature at a distance of 10 mm from case  
Gültig, wenn die Anschlussdrähte in 10 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden

**Characteristics**

**Kennwerte**

|   |   |           |                      |
|---|---|-----------|----------------------|
| Forward voltage – Durchlass-Spannung  | $T_j = 25^\circ\text{C}$ $I_F = 5\text{ A}$ | $V_F$     | $< 1.0\text{ V}$     |
| Leakage current – Sperrstrom  | $T_j = 25^\circ\text{C}$ $V_R = V_{RRM}$    | $I_R$     | $< 25\ \mu\text{A}$  |
| Thermal resistance junction to ambient air<br>Wärmewiderstand Sperrschicht – umgebende Luft |   | $R_{thA}$ | $< 20\text{ K/W}^1)$ |
| Thermal resistance junction to leads<br>Wärmewiderstand Sperrschicht – Anschlussdraht       |   | $R_{thL}$ | $< 4\text{ K/W}$     |



1 Valid, if leads are kept at ambient temperature at a distance of 10 mm from case  
Gültig, wenn die Anschlussdrähte in 10 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden