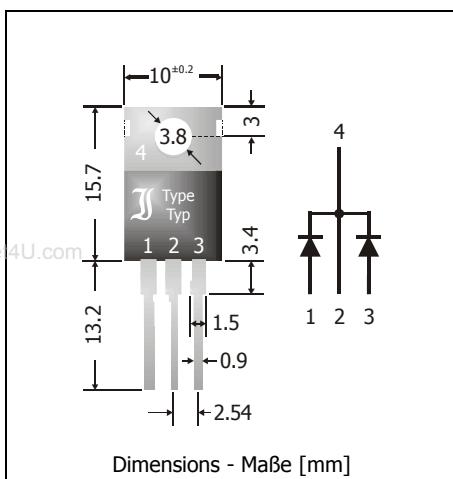


## PCT1600A ... PCT1600M

### Silicon Rectifiers – Common Cathode Silizium-Gleichrichter – Gemeinsame Kathode

Version 2007-07-06

Nominal current  
Nennstrom

16 A

Repetitive peak reverse voltage  
Periodische Spitzensperrspannung

50...1000 V

Plastic case  
Kunststoffgehäuse

TO-220AB

Weight approx.  
Gewicht ca.

1.8 g

Plastic material has UL classification 94V-0  
Gehäusematerial UL94V-0 klassifiziertStandard packaging in tubes  
Standard Lieferform in Stangen

### Maximum ratings and Characteristics

### Grenz- und Kennwerte

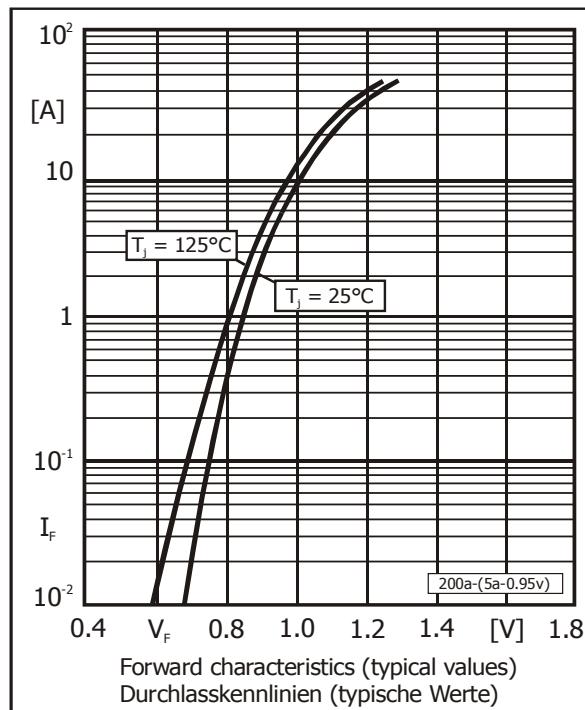
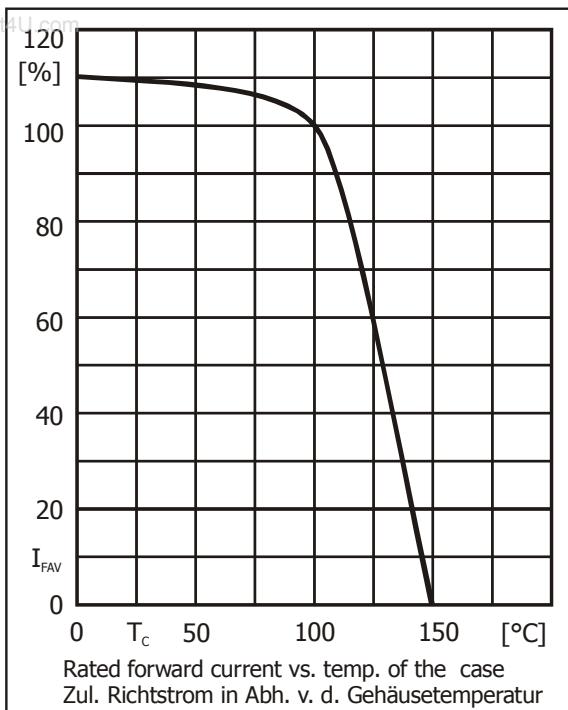
Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung $V_{RRM}$ [V] <sup>1)</sup>	Surge peak reverse voltage Stoßspitzensperrspannung $V_{RSM}$ [V] <sup>1)</sup>	Forward voltage Durchlass-Spannung $V_F$ [V] <sup>1)</sup> , $T_j = 25^\circ\text{C}$	$I_F = 5 \text{ A}$	$I_F = 8 \text{ A}$
PCT1600A	50	50	< 1.0	< 1.1	
PCT1600B	100	100	< 1.0	< 1.1	
PCT1600D	200	200	< 1.0	< 1.1	
PCT1600G	400	400	< 1.0	< 1.1	
PCT1600J	600	600	< 1.0	< 1.1	
PCT1600K	800	800	< 1.0	< 1.1	
PCT1600M	1000	1000	< 1.0	< 1.1	

Max. average forward current, R-load Dauergrenzstrom mit R-Last	$T_C = 100^\circ\text{C}$ $T_C = 100^\circ\text{C}$	$I_{FAV}$ $I_{FAV}$	$8 \text{ A}^1)$ $16 \text{ A}^2)$
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15 \text{ Hz}$	$I_{FRM}$	$30 \text{ A}^3)$
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	$T_A = 25^\circ\text{C}$	$I_{FSM}$	$135/150 \text{ A}^1)$
Rating for fusing, $t < 10 \text{ ms}$ Grenzlastintegral, $t < 10 \text{ ms}$	$T_A = 25^\circ\text{C}$	$i^2t$	$90 \text{ A}^2\text{s}^1)$
Junction temperature – Sperrschiesschichttemperatur Storage temperature – Lagerungstemperatur	$T_j$ $T_s$		$-50...+150^\circ\text{C}$ $-50...+175^\circ\text{C}$

<sup>1</sup> Per diode – Pro Diode<sup>2</sup> Per device (parallel operation) – Pro Bauteil (Parallelbetrieb)<sup>3</sup> Max. temperature of the case  $T_c = 100^\circ\text{C}$  – Max. Temperatur des Gehäuses  $T_c = 100^\circ\text{C}$

**Characteristics**
**Kennwerte**

Leakage current Sperrstrom	$T_j = 25^\circ\text{C}$ $V_R = V_{RRM}$	$I_R$	< 10 $\mu\text{A}$
Thermal resistance junction to case Wärmewiderstand Sperrsicht – Gehäuse		$R_{thC}$	< 2.5 K/W <sup>1)</sup>



1 Per diode – Pro Diode