



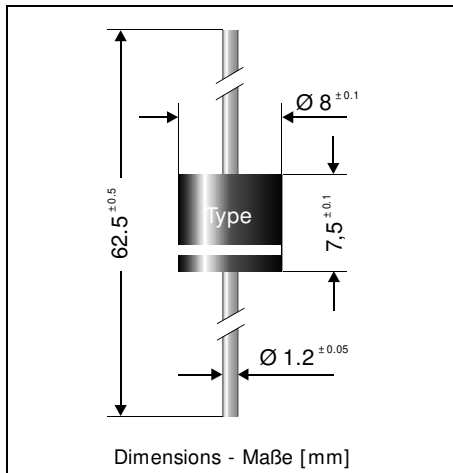
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P1000A ... P1000S

Silicon-Rectifiers – Silizium-Gleichrichter

Version 2006-01-25



Nominal current
Nennstrom

10 A

Repetitive peak reverse voltage
Periodische Spitzensperrspannung

50...1200 V

Plastic case
Kunststoffgehäuse

Ø 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**

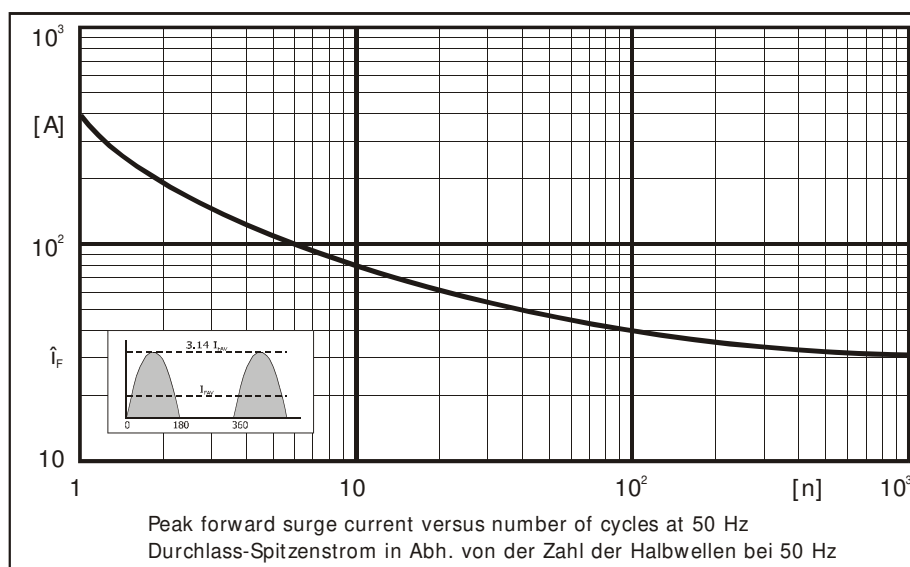
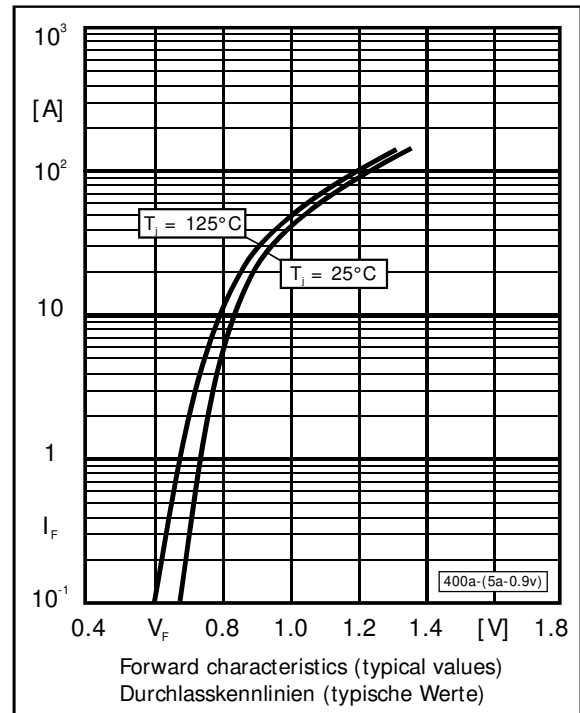
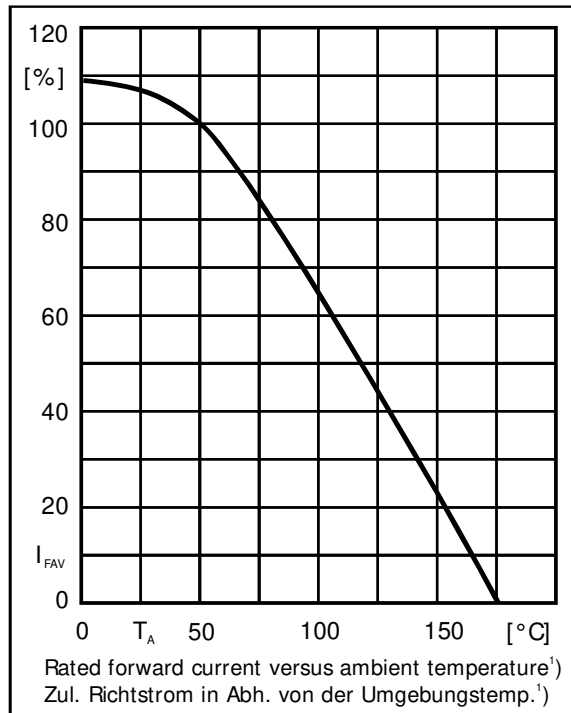
Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{FSM} [V]
P1000A	50	50
P1000B	100	100
P1000D	200	200
P1000G	400	400
P1000J	600	600
P1000K	800	800
P1000M	1000	1000
P1000S	1200	1200

Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	$T_A = 50^\circ\text{C}$	I_{FAV}	10 A ¹⁾
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15\text{ Hz}$	I_{FRM}	80 A ¹⁾
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwellen	$T_A = 25^\circ\text{C}$	I_{FSM}	400/450 A
Rating for fusing, $t < 10\text{ ms}$ Grenzlastintegral, $t < 10\text{ ms}$	$T_A = 25^\circ\text{C}$	i^2t	800 A ² s
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_s	-50...+175°C -50...+175°C

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

Characteristics
Kennwerte

Forward voltage – Durchlass-Spannung	$T_j = 25^\circ\text{C}$ $I_F = 5\text{ A}$	V_F	$< 0.9\text{ V}$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$ $V_R = V_{RRM}$	I_R	$< 25\text{ }\mu\text{A}$
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft		R_{thA}	$< 14\text{ K/W}^1)$
Thermal resistance junction to leads Wärmewiderstand Sperrschicht – Anschlussdraht		R_{thL}	$< 2.8\text{ K/W}$



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