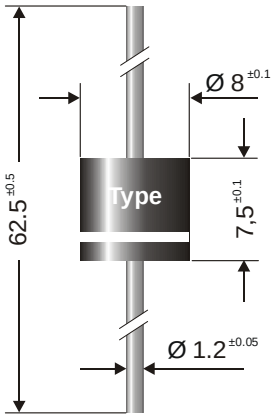
Fast Silicon Rectifiers **Schnelle Silizium Gleichrichter**

Version 2004-04-06



Dimensions / Maße in mm

Nominal current – Nennstrom	12 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	50V, 200 V
Plastic case Kunststoffgehäuse	Ø 8 x 7.5 [mm] P-600 Style
Weight approx. – Gewicht ca.	1.5 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**

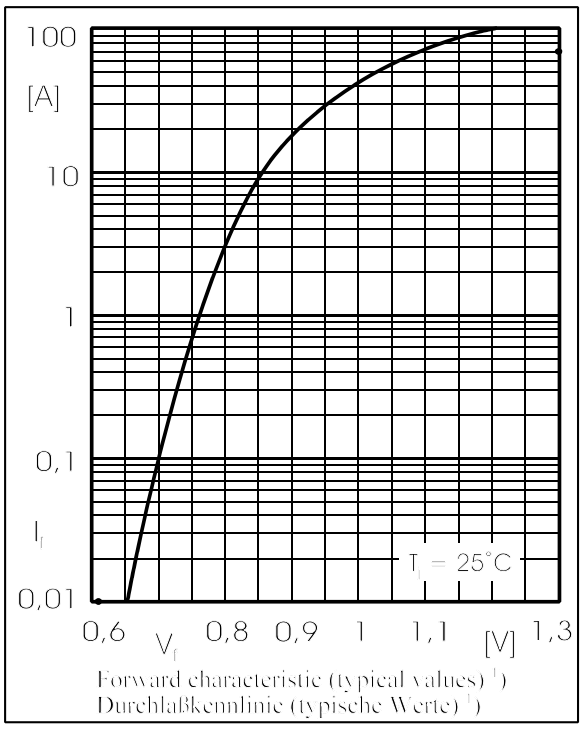
Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]
F1200A	50	50
F1200D	200	200

Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	T_A = 50°C	I_{FAV}	12 A [1])
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	80 A [1])
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	375 A
Peak forward surge current, 60 Hz half sine-wave Stoßstrom für eine 60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	390 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	680 A^2s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	– 50…+150°C – 50…+175°C

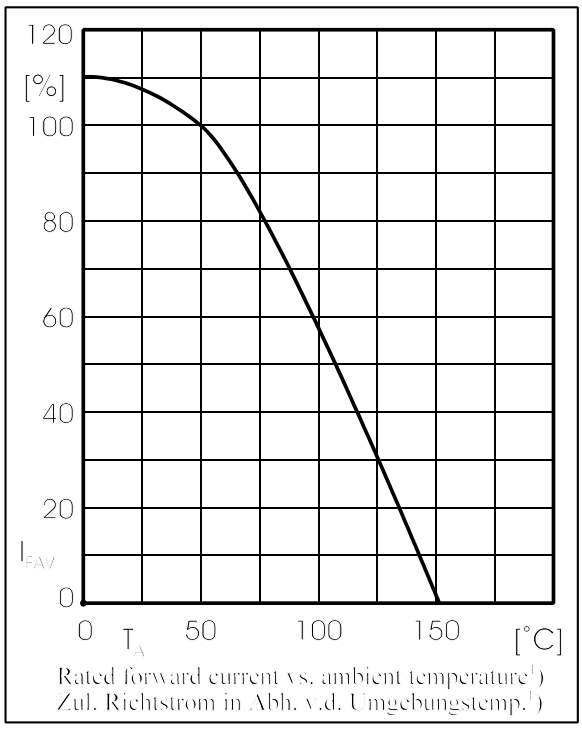
[1]) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case
Gültig, wenn die Anschlußdrähte in 10 mm Abstand von Gehäuse auf Umgebungstemperatur gehalten werden

Characteristics — Kennwerte

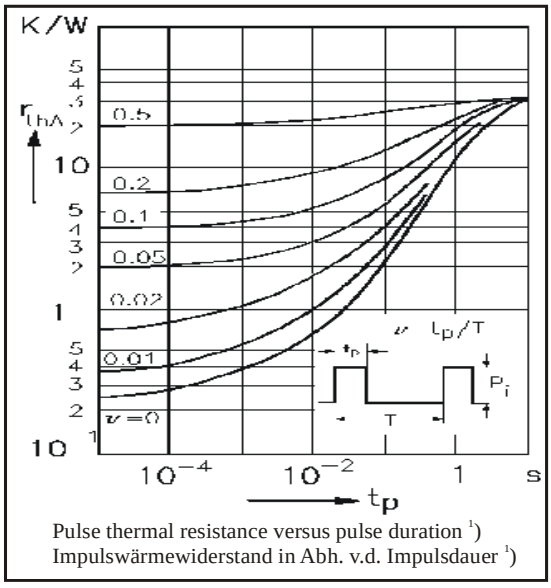
Forward voltage – Durchlaßspannung	T_j = 25°C	I_F = 5 A	V_F	< 0.82 V
Leakage current – Sperrstrom	T_j = 25°C	$V_R = V_{RRM}$	I_R	< 25 µA
Reverse recovery time Sperrverzug	I_F = 0.5 A through/über I_R = 1 A to/auf I_R = 0.25 A		t_{rr}	< 200 ns
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	< 10 K/W [1])



Forward characteristic (typical values) [1])
Durchlaßkennlinie (typische Werte) [1])



Rated forward current vs. ambient temperature [1])
Zul. Richtstrom in Abh. v.d. Umgebungstemp. [1])



Pulse thermal resistance versus pulse duration [1])
Impulswärmewiderstand in Abh. v.d. Impulsdauer [1])

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