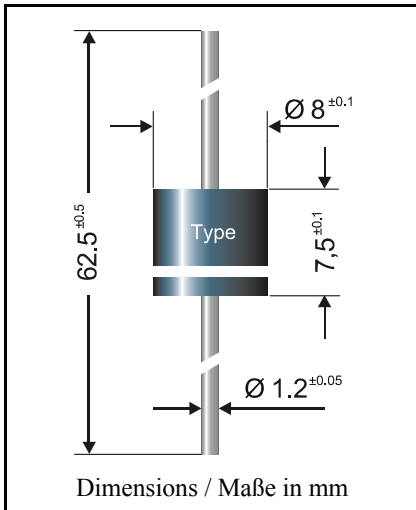


Super Fast Silicon Rectifiers

Superschnelle Silizium Gleichrichter



Nominal current – Nennstrom 6 A
 Repetitive peak reverse voltage 50...400 V
 Periodische Spitzensperrspannung
 Plastic case Ø 8 x 7.5 [mm]
 Kunststoffgehäuse 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 see page 16
 Standard Lieferform gegurtet in Ammo-Pack siehe Seite 16

Maximum ratings

Grenzwerte

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]
FE 6A	50	50
FE 6B	100	100
FE 6D	200	200
FE 6F	300	300
FE 6G	400	400

Max. average forward rectified current, R-load Dauergrenzstrom in Einwagschaltung mit R-Last	$T_A = 50^\circ\text{C}$	I_{FAV}	6 A ¹⁾
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15\text{ Hz}$	I_{FRM}	50 A ¹⁾
Peak forward surge current, 50 Hz half sine-wave Stoßstrom für eine 50 Hz Sinus-Halbwellen	$T_A = 25^\circ\text{C}$	I_{FSM}	200 A
Rating for fusing, $t < 10\text{ ms}$ Grenzlastintegral, $t < 10\text{ ms}$	$T_A = 25^\circ\text{C}$	i^2t	200 A ² s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_s	– 50...+175°C – 50...+175°C

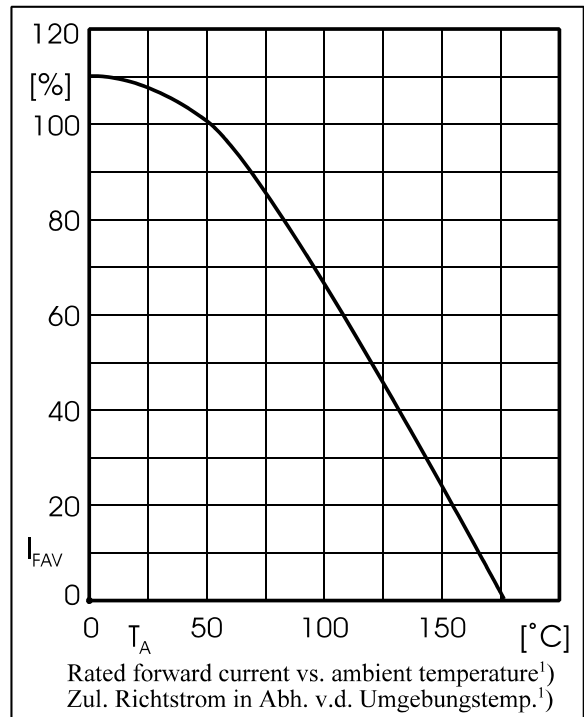
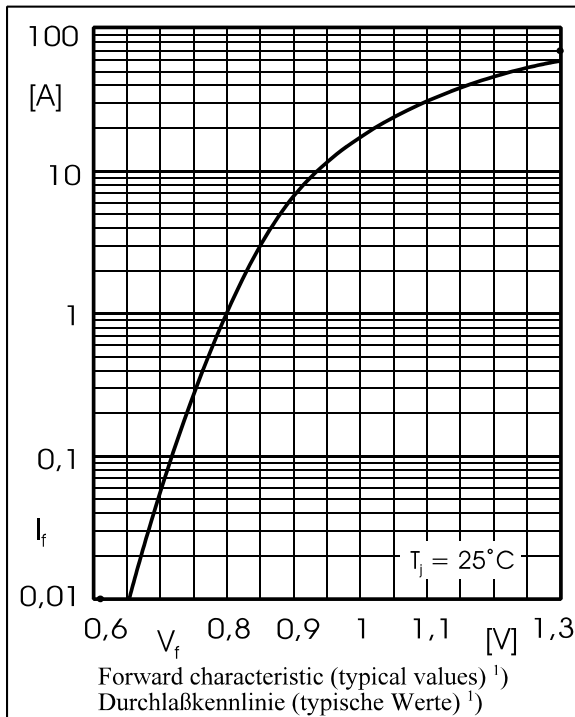
¹⁾ Valid, if leads are kept at ambient temperature at a distance of 10 mm from case

Gültig, wenn die Anschlußdrähte in 10 mm Abstand von Gehäuse auf Umgebungstemperatur gehalten werden

Characteristics

Kennwerte

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 5\text{ A}$	V_F	$< 0.95\text{ V}$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 5\ \mu\text{A}$
Reverse recovery time Sperrverzug	$I_F = 0.5\text{ A}$ through/über $I_R = 1\text{ A}$ to/auf $I_R = 0.25\text{ A}$		t_{rr}	$< 50\text{ ns}$
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thA}	$< 20\text{ K/W}^1)$



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

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