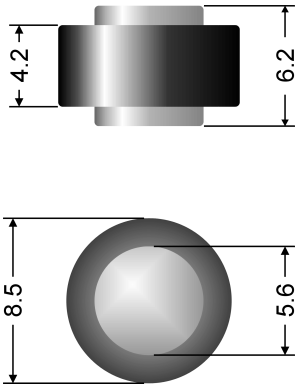
RA3505 ... RA358

Silicon-Rectifiers – Button Diodes
Silizium-Gleichrichter – Knopf-Zellen

Version 2008-10-30



Dimensions - Maße [mm]

Nominal current Nennstrom	35 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	50 ... 800 V
Plastic case Kunststoffgehäuse	Button
Weight approx. Gewicht ca.	1.9 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging bulk Standard Lieferform lose	

Marking: Colored ring denotes "cathode"
Kennzeichnung: Farbiger Ring kennzeichnet "Kathode"

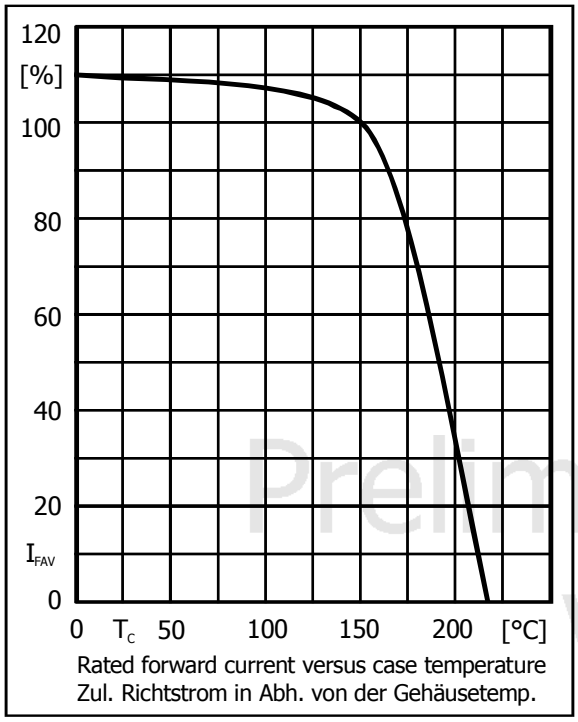
Maximum ratings **Grenzwerte**

Type Typ	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]
RA3505	50	50
RA351	100	100
RA352	200	200
RA354	400	400
RA356	600	600
RA358	800	800

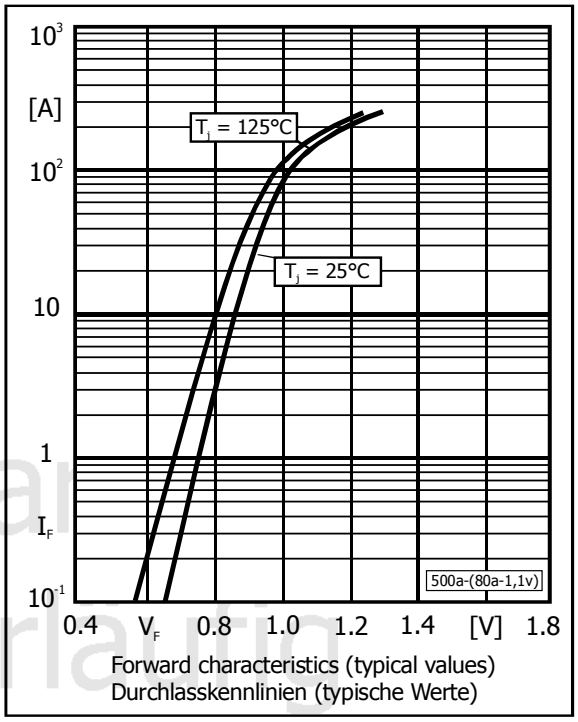
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	T_C = 110°C	I_{FAV}	35 A
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle		I_{FSM}	450/500 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	1000 A^2s
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-50...+175°C -50...+175°C

Characteristics **Kennwerte**

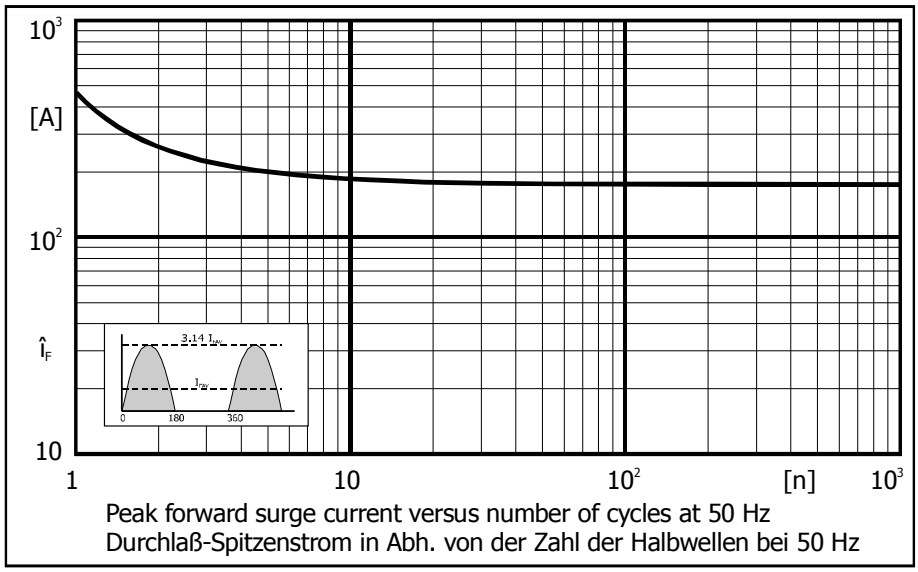
Forward Voltage – Durchlass-Spannung	T_j = 25°C I_F = 80 A	V_F	< 1.1 V
Leakage current Sperrstrom	T_j = 25°C V_R = V_{RRM} T_j = 100°C V_R = V_{RRM}	I_R I_R	< 5 µA < 250 µA
Thermal resistance junction to case (terminal) Wärmewiderstand Sperrschicht – Gehäuse (Anschluss)		R_{thC}	< 1.0 K/W



Rated forward current versus case temperature
Zul. Richtstrom in Abh. von der Gehäusetemp.



Forward characteristics (typical values)
Durchlasskennlinien (typische Werte)



Peak forward surge current versus number of cycles at 50 Hz
Durchlaß-Spitzenstrom in Abh. von der Zahl der Halbwellen bei 50 Hz

