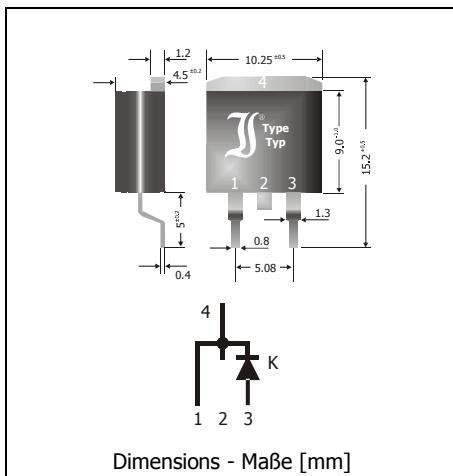


UGB8AT ... UGB8JT
Superfast Efficient Rectifiers – Single Diode
Superschnelle Hocheffizienz-Gleichrichter – Einzeldiode

Version 2012-10-09



Nominal current

8 A

Repetitive peak reverse voltage
Periodische Spitzensperrspannung

50...600 V

Plastic case
KunststoffgehäuseTO-263AB
D² PAK (D2)Weight approx.
Gewicht ca.

1.6 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]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]	Forward voltage Durchlass-Spannung V_F [V] ¹⁾	$I_F = 5$ A	$I_F = 8$ A
UGB8AT	50	50	< 0.9	< 1.0	
UGB8BT	100	100	< 0.9	< 1.0	
UGB8DT	200	200	< 0.9	< 1.0	
UGB8GT	400	400	< 1.15	< 1.25	
UGB8JT	600	600	< 1.6	< 1.75	

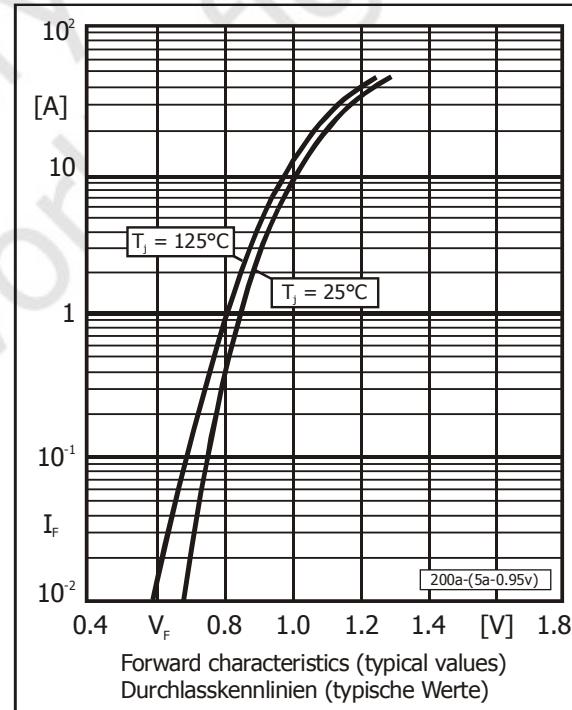
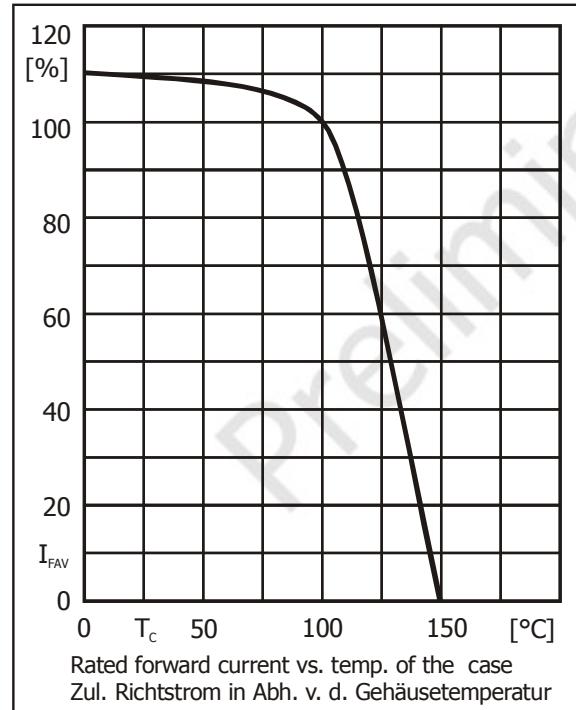
Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	$T_C = 100^\circ\text{C}$	I_{FAV}	8 A
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15$ Hz	I_{FRM}	22 A ²⁾
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	$T_A = 25^\circ\text{C}$	I_{FSM}	112/125 A
Rating for fusing, $t < 10$ ms Grenzlastintegral, $t < 10$ ms	$T_A = 25^\circ\text{C}$	i^2t	62 A ² s
Junction temperature – Sperrsichttemperatur Storage temperature – Lagerungstemperatur	T_j T_s		-50...+150°C -50...+175°C

¹⁾ $T_j = 25^\circ\text{C}$ ²⁾ Max. temperature of the case $T_c = 100^\circ\text{C}$ – Max. Temperatur des Gehäuses $T_c = 100^\circ\text{C}$

Characteristics
Kennwerte

Type Typ	Reverse recovery time Sperrverzugszeit	Reverse recovery time Sperrverzugszeit
	$T_j = 25^\circ\text{C}$	$t_{rr} [\text{ns}]^1)$
UGB8AT ... UGB8DT	< 25	< 35
UGB8GT ... UGB8JT	< 35	< 45

Leakage current Sperrstrom	$T_j = 25^\circ\text{C}$ $V_R = V_{RRM}$	I_R	< 5 μA
Thermal resistance junction to case Wärmewiderstand Sperrsicht – Gehäuse		R_{thC}	< 2.5 K/W



1 $I_F = 0.5 \text{ A}$ through/über $I_R = 1 \text{ A}$ to/auf $I_R = 0.25 \text{ A}$

2 $I_F = 1.0 \text{ A}$, $dI/dt = -50 \text{ A}/\mu\text{s}$, $V_R = 30 \text{ V}$