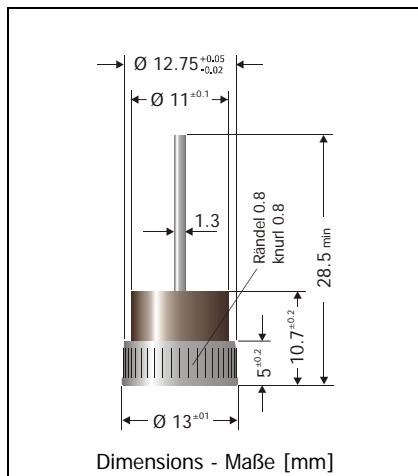


BYP35A05 ... BYP35A6, BYP35K05 ... BYP35K6

Silicon-Press-Fit-Diodes – High Temperature Diodes
Silizium-Einpress-Dioden – Hochtemperatur-Dioden

Version 2006-04-22

Nominal Current
Nennstrom

35 A

Repetitive peak reverse voltage
Periodische Spitzensperrspannung

50 ... 600 V

Metal press-fit case with plastic cover
Metall-Einpressgehäuse mit Plastik-AbdeckungWeight approx.
Gewicht ca.

10 g

Compound has classification UL94V-0
Vergussmasse nach UL94V-0 klassifiziertStandard packaging: bulk
Standard Lieferform: lose im Karton**Maximum ratings****Grenzwerte**

Type / Typ Wire to / Draht an	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RPM} [V]	Surge peak reverse voltage Stoßspitzensperrspannung V_{RSM} [V]
Anode	Cathode	
BYP35A05	BYP35K05	50
BYP35A1	BYP35K1	100
BYP35A2	BYP35K2	200
BYP35A3	BYP35K3	300
BYP35A4	BYP35K4	400
BYP35A6	BYP35K6	600

Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last	$T_c = 150^\circ\text{C}$	I_{FAV}	35 A
Repetitive peak forward current Periodischer Spitzenstrom	$f > 15 \text{ Hz}$	I_{FRM}	130 A ¹⁾
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}	360/400 A
Rating for fusing, $t < 10 \text{ ms}$ Grenzlastintegral, $t < 10 \text{ ms}$	$T_A = 25^\circ\text{C}$	i^2t	660 A ² s
Operating junction temperature – Sperrschiichttemperatur Storage temperature – Lagerungstemperatur	T_j T_s		-50...+215°C -50...+215°C

¹ Max. case temperature $T_c = 150^\circ\text{C}$ – Max. Gehäusetemperatur $T_c = 150^\circ\text{C}$

Characteristics
Kennwerte

Forward Voltage – Durchlass-Spannung	$T_j = 25^\circ\text{C}$	$I_F = 35 \text{ A}$	V_F	< 1.1 V
Leakage Current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	< 100 μA
Thermal Resistance Junction – Case Wärmewiderstand Sperrsicht – Gehäuse			R_{thC}	< 0.8 K/W

