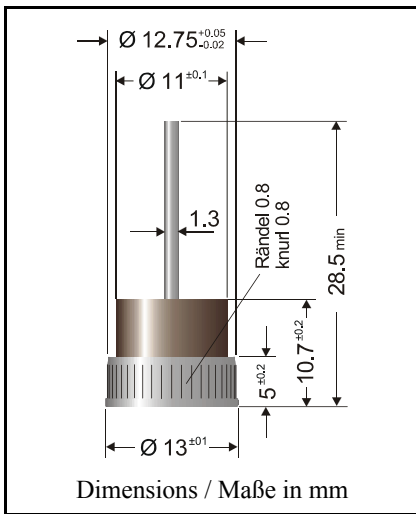


Silicon Press-Fit-Diodes
High-temperature diodes

Silizium-Einpreßdioden
Hochtemperaturdioden



Nominal current – Nennstrom 35 A
Repetitive peak reverse voltage 50...600 V
Periodische Spitzensperrspannung
Metal press-fit case with plastic cover
Metall-Einpreßgehäuse mit Plastik-Abdeckung
Weight approx. – Gewicht ca. 10 g
Casting compound has UL classification 94V-0
Vergußmasse UL94V-0 klassifiziert
Standard packaging: bulk
Standard Lieferform: lose im Karton

Maximum ratings

Grenzwerte

Type / Typ	Repetitive peak reverse voltage	Surge peak reverse voltage
Wire to / Draht an	Periodische Spitzensperrspanng.	Stoßspitzensperrspannung
Anode Cathode	V_{RRM} [V]	V_{RSM} [V]
BYP 35A05	50	60
BYP 35A1	100	120
BYP 35A2	200	240
BYP 35A3	300	360
BYP 35A4	400	480
BYP 35A6	600	700

Max. average forward rectified current, R-load $T_C = 150^\circ\text{C}$ I_{FAV} 35 A
Dauergrenzstrom in Einwegschtung mit R-Last

Repetitive peak forward current $f > 15\text{ Hz}$ I_{FRM} 110 A ¹⁾
Periodischer Spitzenstrom

Peak forward surge current, 50 / 60 Hz half sine-wave $T_A = 25^\circ\text{C}$ I_{FSM} 360 / 400 A
Stoßstrom für eine 50 / 60 Hz Sinus-Halbwell

Rating for fusing – Grenzlastintegral, $t < 10\text{ ms}$ $T_A = 25^\circ\text{C}$ i^2t 660 A²s

Operating junction temperature – Sperrschichttemperatur T_j – 50...+215 °C
Storage temperature – Lagerungstemperatur T_s – 50...+215 °C

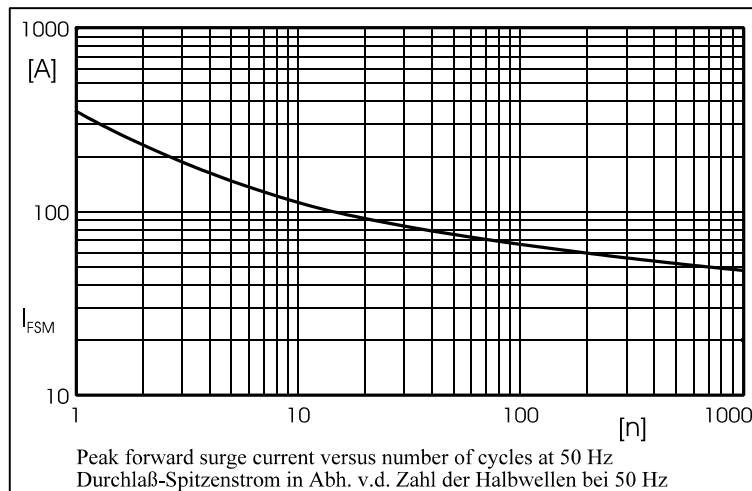
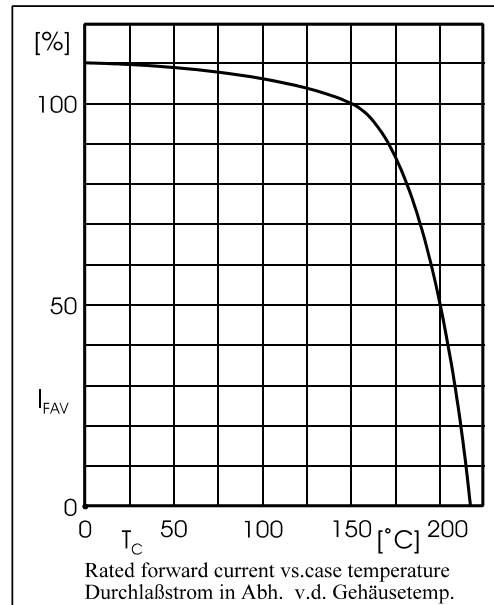
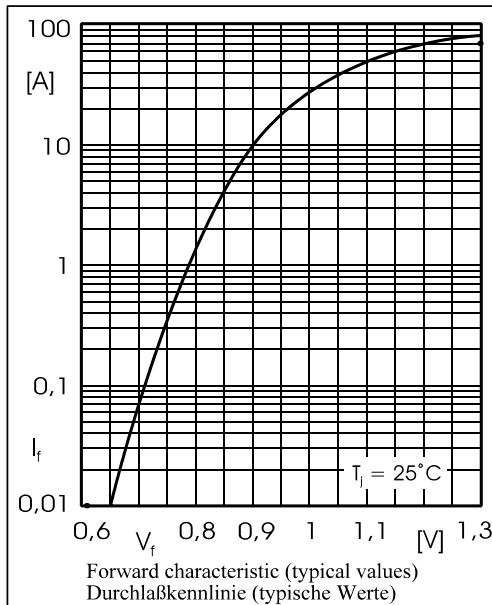
Maximum pressure – Maximaler Einpreßdruck 7 kN

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

Characteristics

Kennwerte

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 35\text{ A}$	V_F	$< 1.1\text{ V}$
Leakage current – Sperrstrom	$T_j = 25^\circ\text{C}$	$V_R = V_{RRM}$	I_R	$< 100\text{ }\mu\text{A}$
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thC}	$< 0.8\text{ K/W}$



Replacements / Ersatztypen			
New - Neu	Old - Alt	New - Neu	Old - Alt
BYP 35K05	BYP70/35	BYP 35A05	BYP75/35
BYP 35K1	BYP71/35	BYP 35A1	BYP76/35
BYP 35K2	BYP72/35	BYP 35A2	BYP77/35
BYP 35K3	BYP73/35	BYP 35A3	BYP78/35
BYP 35K4	BYP74/35	BYP 35A4	BYP79/35