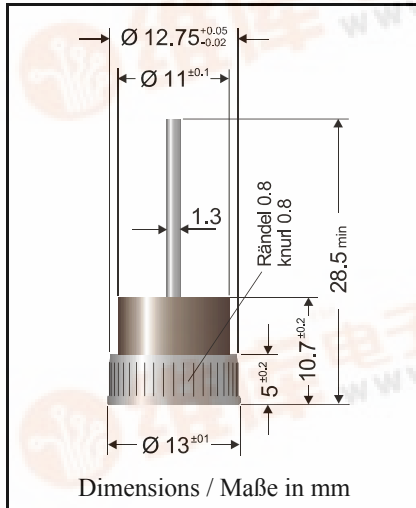


Silicon Press-Fit-Diodes
High-temperature diodes

Silizium-Einpreßdioden
Hochtemperaturdioden



Nominal current – Nennstrom 60 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 60A05	BYP 60K05	50
BYP 60A1	BYP 60K1	100
BYP 60A2	BYP 60K2	200
BYP 60A3	BYP 60K3	300
BYP 60A4	BYP 60K4	400
BYP 60A6	BYP 60K6	600

Max. average forward rectified current, R-load $T_C = 150^\circ\text{C}$ I_{FAV} 60 A
Dauergrenzstrom in Einwagschaltung mit R-Last

Repetitive peak forward current $f > 15\text{ Hz}$ I_{FRM} 120 A ¹⁾
Periodischer Spitzenstrom

Peak forward surge current, 50 / 60 Hz half sine-wave $T_A = 25^\circ\text{C}$ I_{FSM} 450 / 500 A
Stoßstrom für eine 50 / 60 Hz Sinus-Halbwellen

Rating for fusing – Grenzlastintegral, $t < 10\text{ ms}$ $T_A = 25^\circ\text{C}$ i^2t 1000 A²s

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

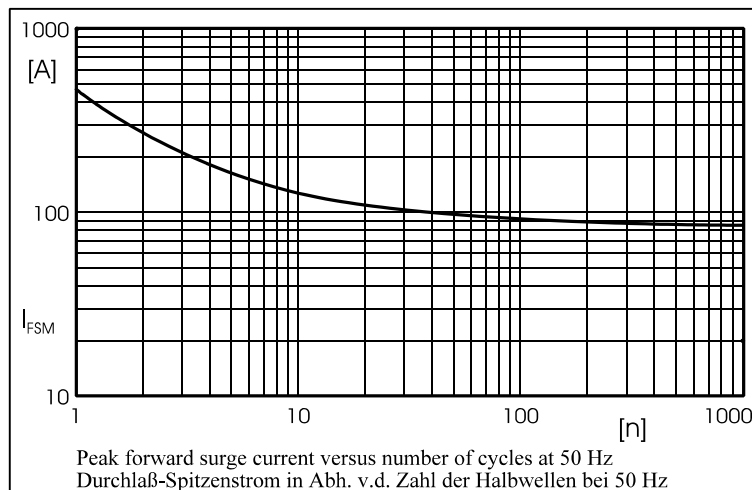
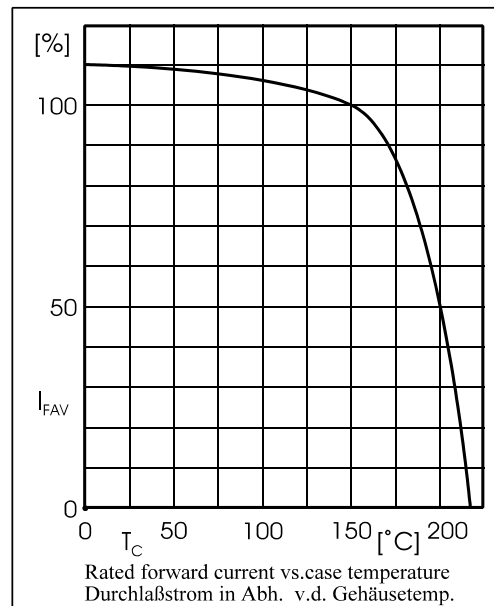
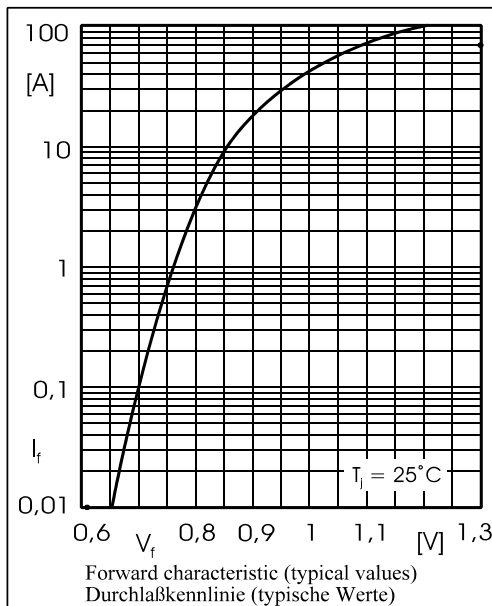
Maximum pressure – Maximaler Einpreßdruck 7 kN

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

Characteristics

Kennwerte

Forward voltage – Durchlaßspannung	$T_j = 25^\circ\text{C}$	$I_F = 60\text{ A}$	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}	$< 0.6\text{ K/W}$



Replacements / Ersatztypen			
New - Neu	Old - Alt	New - Neu	Old - Alt
BYP 60K05	BYP70/60	BYP 60A05	BYP75/60
BYP 60K1	BYP71/60	BYP 60A1	BYP76/60
BYP 60K2	BYP72/60	BYP 60A2	BYP77/60
BYP 60K3	BYP73/60	BYP 60A3	BYP78/60
BYP 60K4	BYP74/60	BYP 60A4	BYP79/60