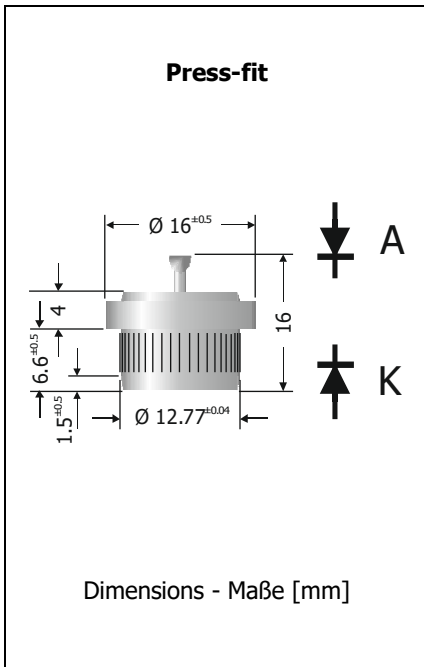


| | | |
|---|--------------------------------|---------------------------------|
| KYZ35A1 ... KYZ35A6 KYZ35K1 ... KYZ35K6 Standard Recovery Press-fit Rectifier Diodes Einpress-Gleichrichterdioden mit Standard-Sperrverzug | $I_{FAV} = 35 \text{ A}$ | $V_{RRM} = 100...600 \text{ V}$ |
| | $V_F < 1.1 \text{ V}$ | $I_{FSM} = 360/400 \text{ A}$ |
| | $T_{jmax} = 175^\circ\text{C}$ | $t_{rr} \sim 1500 \text{ ns}$ |

Version 2018-01-05



Typical Applications

50/60 Hz Mains Rectification, Power Supplies, Polarity Protection Commercial grade ¹⁾

Features

High junction temperature
 Two polarity versions:
 A = Anode to lead wire
 K = Cathode to lead wire
 For press-fit assembly into aluminium cooling plate
 Compliant to RoHS, REACH, Conflict Minerals ¹⁾

Mechanical Data ¹⁾

Packed in cardboard trays 500
 Weight approx. 10 g
 Plastic material UL 94V-0
 Solder & assembly conditions 260°C/10s
 MSL = N/A

Typische Anwendungen

50/60 Hz Netzgleichrichtung, Stromversorgungen, Verpolschutz Standardausführung ¹⁾

Besonderheiten

Hohe Sperrschichttemperatur
 Zwei Polaritäten:
 A = Anode am Anschlussdraht
 K = Kathode am Anschlussdraht
 Für Einpressmontage in Alu-Kühlblech
 Konform zu RoHS, REACH, Konfliktmineralien ¹⁾



Mechanische Daten ¹⁾

Verpackt in Einlegekartons
 Gewicht ca.
 Kunststoffmaterial
 Löt- und Einbaubedingungen

Maximum ratings ²⁾

Grenzwerte ²⁾

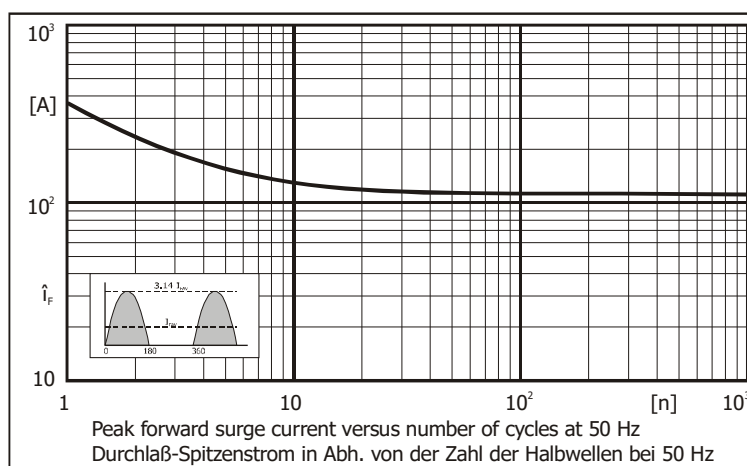
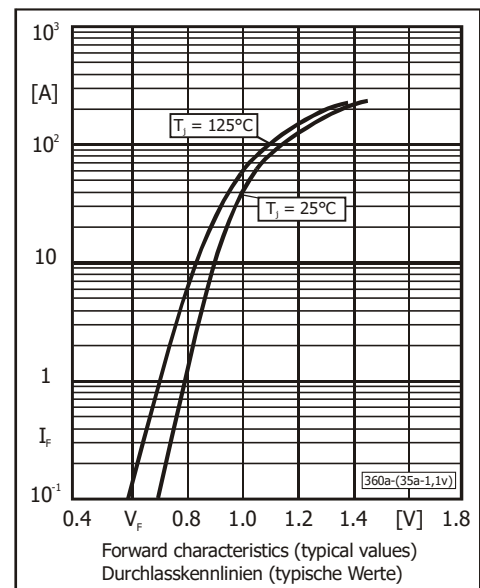
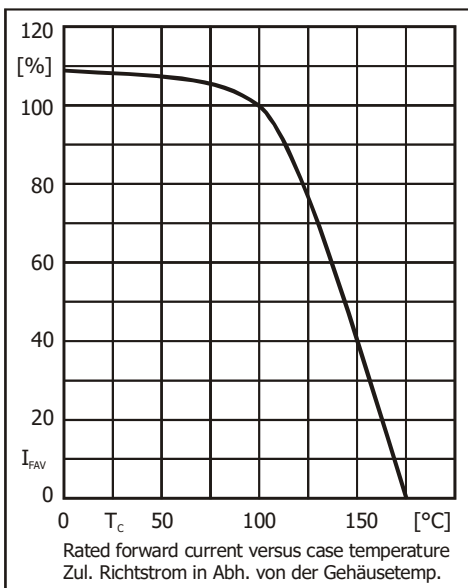
| Type / Typ Wire to / Draht an Anode Cathode | Repetive peak reverse voltage Periodische Spitzensperrspannung $V_{RRM} [V]$ | Surge peak reverse voltage Stoßspitzensperrspannung $V_{RSM} [V]$ |
|---|--|---|
| KYZ35A1 KYZ35K1 | 100 | 100 |
| KYZ35A2 KYZ35K2 | 200 | 200 |
| KYZ35A3 KYZ35K3 | 300 | 300 |
| KYZ35A4 KYZ35K4 | 400 | 400 |
| KYZ35A6 KYZ35K6 | 600 | 600 |

| | | | |
|--|---------------------------------------|---------------------------------------|------------------------------|
| Max. average forward rectified current, R-load Dauergrenzstrom in Einwegschaltung mit R-Last | $T_c = 150^\circ\text{C} \text{ }^3)$ | I_{FAV} | 35 A |
| Repetitive peak forward current Periodischer Spitzenstrom | $f > 15 \text{ Hz}$ | $T_c = 150^\circ\text{C} \text{ }^3)$ | I_{FRM} 130 A |
| Peak forward surge current Stoßstrom in Fluss-Richtung | Half sine-wave Sinus-Halbwelle | 50 Hz (10 ms) 60 Hz (8.3 ms) | I_{FSM} 360 A 400 A |
| Rating for fusing Grenzlastintegral | $t < 10 \text{ ms}$ | i^2t | 660 A ² s |
| Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur | | T_j T_s | -50...+175°C -50...+175°C |
| Maximum admissible press-in force Maximal zulässige Einpresskraft | | F_{pM} | 4 kN |

1 Please note the [detailed information on our website](#) or at the beginning of the data book
 Bitte beachten Sie die [detaillierten Hinweise auf unserer Internetseite](#) bzw. am Anfang des Datenbuches
 2 $T_A = 25^\circ\text{C}$ unless otherwise specified – $T_A = 25^\circ\text{C}$ wenn nicht anders angegeben
 3 Temperature measured at the metallic base – Temperatur am Metallsockel gemessen

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 |
| Typical junction capacitance Typische Sperrschichtkapazität | | $V_R = 4\text{ V}$ | C_j | 250 pF |
| Reverse recovery time Sperrverzug | $I_F = 0.5\text{ A}$ through/über $I_R = 1\text{ A}$ to $I_R = 0.25\text{ A}$ | | t_{rr} | typ. 1500 ns |
| Thermal resistance junction to metallic base Wärmewiderstand Sperrschicht – Metallsockel | | | R_{thc} | < 0.8 K/W ¹⁾ |



Disclaimer: See data book page 2 or [website](#)
Haftungsschluss: Siehe Datenbuch Seite 2 oder [Internet](#)

1 Temperature measured at the metallic base – Temperatur am Metallsockel gemessen