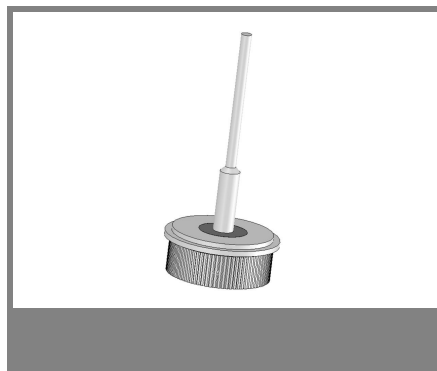


# KYW 35A05 ... KYW 35K6



## Silicon Press-Fit-Diodes

### KYW 35A05...KYW 35K6

**Forward Current: 35 A**

**Reverse Voltage: 50 to 600 V**

Publish Data

### Features

- max. solder temperature 260°C, max. 5
- Standard packaging: bulk

### Mechanical Data

- Metal press-fit case with glass seal
- Weight approx. 10 g
- Terminals: plated terminals solderable per IEC 68-2-20
- Mounting position : any

| Type   | Wired to<br>ANODE | Wired to<br>CATHODE | Repetitive<br>peak<br>reverse<br>voltage<br><br>$V_{RRM}$<br>V | Surge<br>peak<br>reverse<br>voltage<br><br>$V_{RSM}$<br>V | Maximum<br>forward<br>voltage<br>$T_j = 25\text{ °C}$<br>$I_F = 35\text{ A}$<br>$V_F$<br>V |
|--------|-------------------|---------------------|----------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| KYW 35 | KYW 35A05         | KYW 35K05           | 50                                                             | 60                                                        | 1,1                                                                                        |
| KYW 35 | KYW 35A1          | KYW 35K1            | 100                                                            | 120                                                       | 1,1                                                                                        |
| KYW 35 | KYW 35A2          | KYW 35K2            | 200                                                            | 240                                                       | 1,1                                                                                        |
| KYW 35 | KYW 35A3          | KYW 35K3            | 300                                                            | 360                                                       | 1,1                                                                                        |
| KYW 35 | KYW 35A4          | KYW 35K4            | 400                                                            | 480                                                       | 1,1                                                                                        |
| KYW 35 | KYW 35A6          | KYW 35K6            | 600                                                            | 700                                                       | 1,1                                                                                        |

| Absolute Maximum Ratings |                                                           | $T_c = 25\text{ °C}$ , unless otherwise specified |                  |
|--------------------------|-----------------------------------------------------------|---------------------------------------------------|------------------|
| Symbol                   | Conditions                                                | Values                                            | Units            |
| $I_{FAV}$                | Max. averaged fwd. current, R-load, $T_c = 100\text{ °C}$ | 35                                                | A                |
| $I_{FRM}$                | Repetitive peak forward current $f > 15\text{ Hz}^{1)}$   | 110                                               | A                |
| $I_{FSM}$                | Peak fwd. surge current 50 Hz half sinus-wave             | 360                                               | A                |
| $I^2t$                   | Rating for fusing, $t < 10\text{ ms}$                     | 660                                               | A <sup>2</sup> s |
| $R_{thA}$                | Thermal resistance junction to case                       | 0,8                                               | K/W              |
| $T_j$                    | Operating junction temperature                            | - 50 ... + 175                                    | °C               |
| $T_s$                    | Storage temperature                                       | - 50 ... + 175                                    | °C               |

| Characteristics |                                                               | $T_c = 25\text{ °C}$ , unless otherwise specified |       |
|-----------------|---------------------------------------------------------------|---------------------------------------------------|-------|
| Symbol          | Conditions                                                    | Values                                            | Units |
| $I_R$           | Maximum leakage current, $T_A 25\text{ °C}$ ; $V_R = V_{RRM}$ | 100                                               | μA    |

