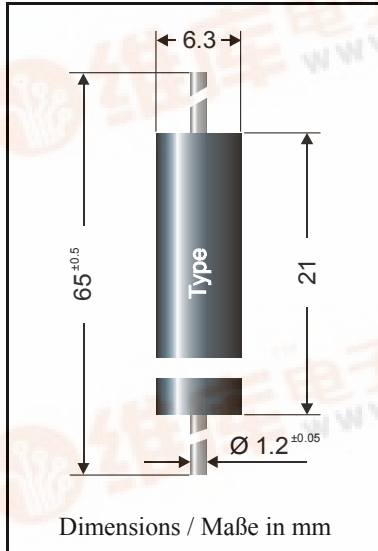


**High Voltage Si-Rectifiers**

**Si-Hochspannungs-Gleichrichter**



|                                                                                       |                 |
|---------------------------------------------------------------------------------------|-----------------|
| Nominal current – Nennstrom                                                           | 1 A...0.3A      |
| Repetitive peak reverse voltage<br>Periodische Spitzensperrspannung                   | 4000...16000 V  |
| Plastic case<br>Kunststoffgehäuse                                                     | Ø 6.3 x 21 [mm] |
| Weight approx. – Gewicht ca.                                                          | 1.9 g           |
| Plastic material has UL classification 94V-0<br>Gehäusematerial UL94V-0 klassifiziert |                 |
| Standard packaging: bulk<br>Standard Lieferform ungegurtet                            |                 |

**Maximum ratings and Characteristics**

**Grenz- und Kennwerte**

| Type<br>Typ | Rep. peak reverse volt.<br>Period. Spitzensperrspg.<br>$V_{RRM}$ [V] | Surge peak reverse volt.<br>Stoßspitzensperrspg.<br>$V_{RSM}$ [V] | Max. forward current<br>Dauergrenzstrom<br>$I_{FAV}$ [A] <sup>1)</sup> | Forward volt.<br>Durchlaßspg<br>$V_F$ [V] <sup>2)</sup> |
|-------------|----------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------|
| BY 4        | 4000                                                                 | 4000                                                              | 1.0                                                                    | < 4.0                                                   |
| BY 6        | 6000                                                                 | 6000                                                              | 1.0                                                                    | < 6.0                                                   |
| BY 8        | 8000                                                                 | 8000                                                              | 0.5                                                                    | < 8.0                                                   |
| BY 12       | 12000                                                                | 12000                                                             | 0.5                                                                    | < 8.0                                                   |
| BY 16       | 16000                                                                | 16000                                                             | 0.3                                                                    | < 15.0                                                  |

|                                                                                                      |                                                       |                                    |                |                                         |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------|----------------|-----------------------------------------|
| Leakage current<br>Sperrstrom                                                                        | $T_j = 25^\circ\text{C}$<br>$T_j = 100^\circ\text{C}$ | $V_R = V_{RRM}$<br>$V_R = V_{RRM}$ | $I_R$<br>$I_R$ | < 1 $\mu\text{A}$<br>< 25 $\mu\text{A}$ |
| Peak forward surge current, 50 Hz half sine-wave<br>Stoßstrom für eine 50 Hz Sinus-Halbwellen        |                                                       | $T_A = 25^\circ\text{C}$           | $I_{FSM}$      | 100 A                                   |
| Operating junction temperature – Sperrschichttemperatur<br>Storage temperature – Lagerungstemperatur |                                                       |                                    | $T_j$<br>$T_s$ | – 50...+150°C<br>– 50...+150°C          |
| Thermal resistance junction to ambient air<br>Wärmewiderstand Sperrschicht – umgebende Luft          |                                                       |                                    | $R_{thA}$      | < 25 K/W <sup>1)</sup>                  |