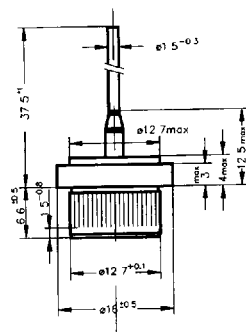


Silizium-Einpreßdiode

DIOTEC ELEKTRONISCHE

Nominal current 20 A  
Repetitive peak reverse voltage 50...400 V



All dimensions in mm

Rectifier in metal Pressfit -  
case with wire terminal  
Weight approx. 10 g

Maximum ratings

| Type<br>Cathode<br>at wire | Anode | Repetitive peak<br>reverse voltage<br>$V_{RRM}$ [V] | Surge peak<br>reverse voltage<br>$V_{RSM}$ [V] |
|----------------------------|-------|-----------------------------------------------------|------------------------------------------------|
| KYZ70                      | KYZ75 | 50                                                  | 60                                             |
| KYZ71                      | KYZ76 | 100                                                 | 120                                            |
| KYZ72                      | KYZ77 | 200                                                 | 240                                            |
| KYZ73                      | KYZ78 | 300                                                 | 360                                            |
| KYZ74                      | KYZ79 | 400                                                 | 480                                            |

Nominal current with resistive load,  $T_A = 50^\circ\text{C}$   $I_{FAV}$  20 A<sup>1)</sup>

Maximum Power dissipation  $P_{tot}$  24 W

Surge forward current half cycle sine wave starting at  $T_J = 25^\circ\text{C}$   $I_{FSM}$  300 A

Junction temperature  $T_J$  155  $^\circ\text{C}$

Operating temperature  $T_A$  -40 - 150  $^\circ\text{C}$

Storage temperature  $T_S$  -40 - 150  $^\circ\text{C}$

Maximum Pressure 7 kN

<sup>1)</sup> Valid, if leads are kept at ambient temperature at a distance of 10mm from case.

## DIOTEC ELEKTRONISCHE

## Characteristics

Forward voltage  
at  $I_F = 20 \text{ A}$ ,  $T_j = 25 \text{ }^\circ\text{C}$

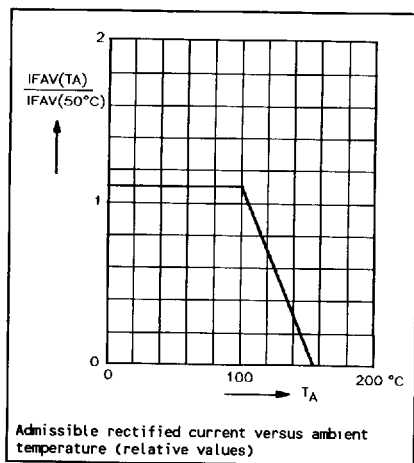
$V_F < 1.1 \text{ V}$

Leakage current at  $V_{RRM}$ ,  
 $T_j = 25 \text{ }^\circ\text{C}$

$I_R < 100 \text{ } \mu\text{A}$

Thermal resistance  
Junction - Case

$R_{ThJC} < 1.5 \text{ K/W}$



## Marking of the leads :

| Type  | Ring1             | Ring2 | Type  | Ring1              | Ring2 |
|-------|-------------------|-------|-------|--------------------|-------|
| KYZ70 | red               | -     | KYZ75 | blue               | -     |
| KYZ71 | red               | red   | KYZ76 | blue               | blue  |
| KYZ72 | red <sup>1)</sup> | -     | KYZ77 | blue <sup>1)</sup> | -     |
| KYZ73 | red <sup>1)</sup> | -     | KYZ78 | blue <sup>1)</sup> | -     |
| KYZ74 | red <sup>1)</sup> | -     | KYZ79 | blue <sup>1)</sup> | -     |

<sup>1)</sup> Ink - spot