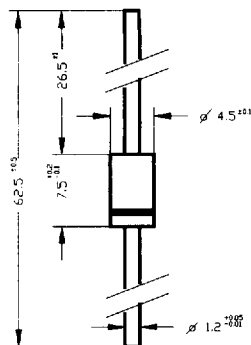


DIOTEC ELEKTRONISCHE 7-01-13

Silicon Rectifier

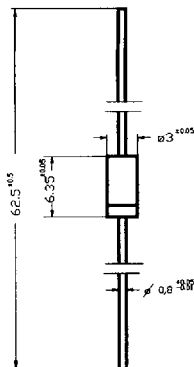


Plastic case "G" (D0201)
Weight approx. 1g
All dimensions in mm

Nominal current 1 A

Repetitive peak reverse voltage 450 - 800 V

Plastic case according UL94-V0



Plastic case "S" (D015) 58A2
DIN 41883, Weight approx. 0,4g
All dimensions in mm

Maximum ratings

Type	Repetitive peak reverse voltage V_{RRM} [V]	Surge peak reverse voltage V_{RSM} [V]
BY 127	800	1250
BY 226	450	650
BY 227	800	1250
BY 228 ¹⁾	1500	1800
BY 448	1500	1800

¹⁾ Reverse recovery time t_{rr} from $I_F = 10\text{mA}$ through $I_R = 10\text{mA}$ to $I_R = 1\text{mA}$ < 20 μs

Nominal current at half wave rectification with resistive load

at $T_A = -65...+75^\circ\text{C}$
 $T_A = 100^\circ\text{C}$

I_{FAV}
 I_{FAV}

Case S Case G

1,6¹⁾ A 3,0 A
0,75¹⁾ A 1,8 A

Repetitive peak forward current

I_{FRM}

10¹⁾ A

Surge forward current half cycle sine wave starting at $T_j = 25^\circ\text{C}$

I_{FSM}

50 A

Junction temperature

T_j

175 $^\circ\text{C}$

Operating temperature

T_A

-40...+175 $^\circ\text{C}$

Storage temperature

T_S

-40...+175 $^\circ\text{C}$

Characteristics

DIOTEC ELEKTRONISCHE

Forward voltage
 $I_f = 2 \text{ A}, T_j = 25^\circ\text{C}$

$V_f < 1,3 \text{ V}$

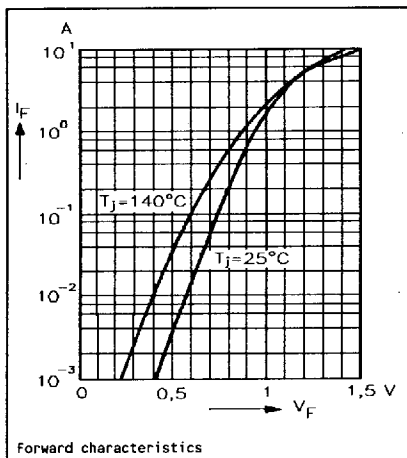
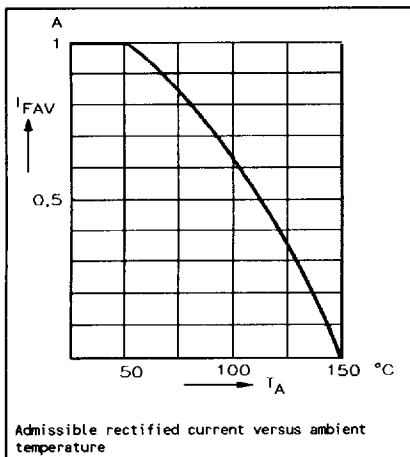
Leakage current

$V_{RRM}, T_j = 25^\circ\text{C}$
 $V_{RRM}, T_j = 100^\circ\text{C}$

$I_R < 10 \mu\text{A}$
 $< 200 \mu\text{A}$

Thermal resistance
 Junction to ambient air

$R_{thA} < 60 \text{ K/W}^{1)}$



¹⁾Valid, if leads are kept at ambient temperature at a distance of 10mm from case