**Silicon Epitaxial Planar Capacitance Diode** in DO-7 glass package witn wide effective capacitance variation for tuning over the total frequency range in short-wave, medium-wave, and long-wave circuits

| Type | Characteristics and maximum ratings at $T_{amb}$ = 25 °C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | @ $V_R$ = 0 . . . 1,5 V | @ $V_R$ = 1 V | @ $V_R$ = 4 . . . 10 V | @ $V_R$ = 0 . . . 10 V | @ $V_R$ = 1 . . . 10 V | @ $V_R$ = 1 V | @ $V_R$ = 1 V f = 0,15 . . . 0,5 MHz | @ $V_R$ = 10 V f = 0,3 . . . 1,5 MHz | | @ $V_R$ = 10 V |
| | $C_{tot}$ pF | $C_{tot}$ pF | $C_{tot}$ pF | $C_{tot}$ (0 V) / $C_{tot}$ (10 V) | $C_{tot}$ (1 V) / $C_{tot}$ (10 V) | $r_s$ Ω | Q | Q | $V_{(BR)R}$ V | $I_R$ μA |
| **BA 163** | 260 | > 180 | 10 | 35 (> 26) | 25 (> 18) | 1,5 | 500 (> 200) | 500 (> 200) | > 14 | < 0,5 |

The BA 163 is available in matched sets of two or more units. For matching see data sheets.

**Silicon Epitaxial Planar Bandswitching Diodes** in "double-plug" glass package.
For use in radio and TV tuners.

| Type | Maximum Ratings | | | Characteristics at $T_{amb}$ = 25 °C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | @ $T_{amb}$ = 60 °C | | | @ $I_F$ = 100 mA | @ $V_R$ = 15 V | | @ $I_F$ = 10 mA f = 50 . . . 1000 MHz | $I_F$ = 2 . . . 40 mA | @ $V_R$ = 15 f = 50 . . 1000 MHz | |
| | $V_R$ V | $I_F$ mA | $T_j$ °C | $V_F$ V | $I_R$ nA | $L_s$ nH | $r_F$ Ω | Δ $r_F$ %/mA | $C_{tot}$ pF | |
| **BA 243** | 20 | 100 | 100 | < 1 | < 100 | 2,5 | 0,7 (< 1) | 5 | < 2 | |
| **BA 244** | 20 | 100 | 100 | < 1 | < 100 | 2,5 | 0,4 (< 0,5) | 5 | < 2 | |

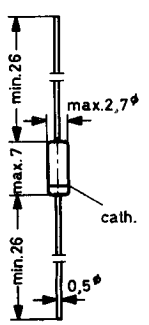
BA 243: black cathode band; BA 244: green cathode band.

**Germanium Gold Bonded Diodes** in DO-7 glass package

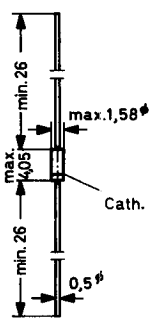
| Type | Maximum Ratings | | | Characteristics at $T_{amb}$ = 25 °C | | | | |
|---|---|---|---|---|---|---|---|---|
| | @ $T_{amb}$ = 25 °C | | @ $T_{amb}$ = 25 °C | | | | | |
| | $V_R$ V | $I_0$ mA | $P_{tot}$ mW | $T_j$ °C | $I_R$ μA | @ $V_R$ V | $V_F$ V | @ $I_F$ mA | $t_{rr}$ ns or $Q_s$ |
| **AA 143** | 25 | 60 | 80 | 85 | < 20 | 20 | 0,29 . . . 0,33 | 2 | — |
| **AA 144** | 90 | 10 | 80 | 85 | < 200 | 75 | 0,36 (< 1) | 5 | — |
| **DK 13** | 50 | 120 | — | 75 | < 60 | 50 | 0,3 . . . 0,4 | 3 | $Q_S$ = 700 pC max |
| **DK 14** | 80 | 120 | — | 75 | < 90 | 80 | 0,35 . . . 0,4 | 3 | $Q_S$ = 700 pC max |
| **DK 15** | 100 | 120 | — | 75 | < 90 | 100 | 0,35 . . . 0,4 | 3 | $Q_S$ = 700 pC max |
| **DK 19** | 25 | 110 | — | 75 | < 160[1] | 25 | 0,2 . . . 0,33 | 1 | $Q_S$ = 600 pC max |
| **DK 20** | 50 | 70 | — | 90 | < 25 | 50 | 0,8 | 100 | 500 $I_F$=10mA, $V_R$ =10V, $I_R$=1mA |
| **DK 21** | 8 | 30 | — | 75 | < 25 | 3 | 0,32 | 1 | $Q_S$ = 350 pC |

[1]At 60°C

DO-7 Outline
Weight 0,2 p




Double-plug Outline
Weight 0,1 p.




Dimensions in mm