

Hyperabrupt silicon tuning varactors

- Suitable up to X-band application
- Linear voltage/frequency characteristic
- Comprehensive capacitance spectrum
- High reliability due to precious metal contacts and nitride over oxide passivation
- High rel components tested in accordance with MIL specifications available

Type	Capacitance ($V_R = -4$ V; $f = 50$ MHz) C_{D4} (pF)	Min. capacitance ratio $\frac{C_{D4}}{C_{D20}}$	Min. quality ($V_R = -4$ V; $f = 50$ MHz) Q	Recommended ¹⁾ operating frequency up to (GHz)	Fig. ²⁾
BBY 34 A	1.0– 1.5	2.0	500	10	58
BBY 34 B	1.5– 2.0	2.5	500	10	58
BBY 34 C	2.0– 3.0	2.6	400	8	58
BBY 34 D	3.0– 4.0	2.7	400	6	58
BBY 35 F	8.5–10.0	3.5	250	4	123
BBY 36	3.0– 4.0	2.7	400	2	7
BBY 37	4.0– 5.0	3.0	350	6	47
BBY 38	22.0–25.0	4.0	100	2	47

1) Approximate values, dependent on coupling to the vibrator

2) Additional package versions upon request. Cathode is heat sink

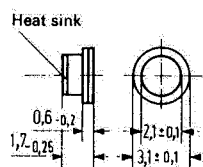


Fig. 47
Approx. weight 0.03 g

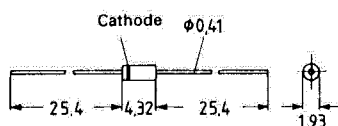


Fig. 7 Approx. weight 0.18 g

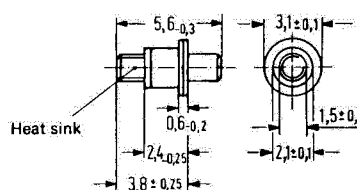


Fig. 58 Approx. weight 0.12 g

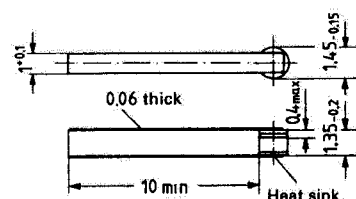


Fig. 123 Approx. weight 0.03 g

Dimensions in mm