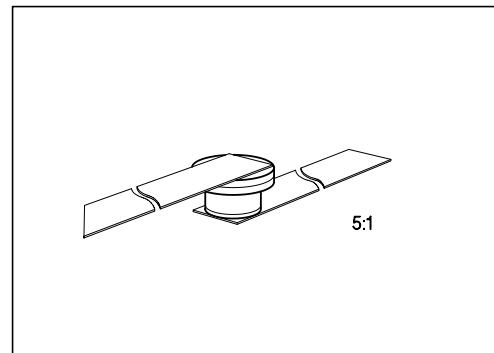
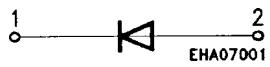


Silicon Tuning Varactors

**BBY 24
... BBY 27**

- Abrupt junction tuning diode
- Tuning range 120 V



Type	Marking	Ordering Code	Pin Configuration	Package ¹⁾
BBY 24-S1	-	Q62702-B20-S1		P
BBY 25-S1		Q62702-B21-S1		
BBY 26-S1		Q62702-B22-S1		
BBY 27-S2		Q62702-B23-S2		

Maximum Ratings

Parameter	Symbol	Values		Unit	
		BBY 24 ... 26	BBY 27		
Reverse voltage	V_R	120	140	V	
Junction temperature	T_j	175	$^{\circ}\text{C}$	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	− 55 ... + 150			
Operating temperature range	T_{op}	− 55 ... + 150			

¹⁾ For detailed information see chapter Package Outlines.

Electrical Characteristicsat $T_A = 25^\circ\text{C}$, unless otherwise specified.

Parameter	Symbol	Values			Unit
		min.	typ.	max.	
Reverse current $V_R = 100 \text{ V}$	I_R	—	—	10	nA
Diode capacitance $V_R = 0, f = 1 \text{ MHz}$	C_T	12	—	16	pF
		BBY 24	16	—	20
		BBY 25	20	—	24
		BBY 26	36	—	40
BBY 27					
Capacitance ratio $V_{R1} = 0, V_{R2} = 120 \text{ V}$	$\frac{C_{T0}}{C_{T120}}$	8.5	—	—	—
		BBY 24	9.0	—	—
		BBY 25	9.5	—	—
		BBY 26	9.5	—	—
BBY 27					
Figure of merit $V_R = 4 \text{ V}, f = 50 \text{ MHz}$	Q	200	—	—	—
Slope of characteristics $V_{R1} = 0, V_{R2} = 120 \text{ V}$	n	2	—	2.15	—