Silicon Varicap Diode

BB404D

45pF – 46.5pF

DATASHEET

OEM – ITT

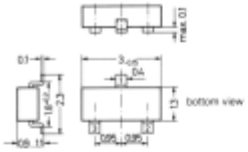
Source:

ITT databook discrete semiconductors for surface mounting 1991

BB404

Tuner Diode
Si Epitaxial Planar Dual Capacitance Diode for tuning in the VHF range, especially in car receivers.

These diodes are delivered taped.
Details see "Taping".



Plastic Package JEDEC TO-236
23 A 3 acording to DIN 41869

Weight approx. 0.01 g
Dimension in mm

Marking code

Type	Marking
BB404A	A4
BB404B	B4
BB404C	C4
BB404D	D4
BB404E	E4

Absolute Maximum Ratings

	Symbol	Value	Unit
Reverse Voltage	V_R	15	V
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_S	−55 to +125	°C

Characteristics at $T_j = 25\,^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit
Capacitance at f = 1 MHz, V_R = 2 V	C_{tot}	42	–	47.5	pF
Group A	C_{tot}	42	–	43.5	pF
B	C_{tot}	43	–	44.5	pF
C	C_{tot}	44	–	45.5	pF
D	C_{tot}	45	–	46.5	pF
E	C_{tot}	46	–	47.5	pF
Effective Capacitance Ratio at V_R = 2 to 8 V	$\frac{C_{tot}\,(2\,V)}{C_{tot}\,(8\,V)}$	1.65	–	1.75	–
Series Resistance at f = 100 MHz, C_{tot} = 38 pF	r_S	–	–	0.4	Ω
Leakage Current at V_R = 10 V	I_R	–	–	20	nA
Basic Tolerance[1] at V_R = 2 V	$\|K\|$	–	–	1	%

[1] Difference of capacitance values of the individual diodes in one package.