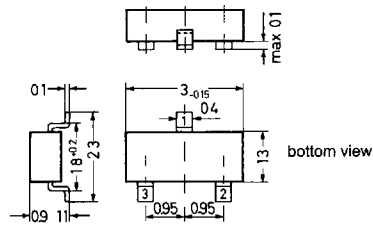
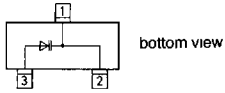


# BB510

## Tuner Diode

Si Epitaxial Planar Capacitance Diode with very high effective capacitance ratio for tuning the whole MW range, especially in car receivers.



Marking: CA

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

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

Weight approx. 0.01 g  
Dimensions in mm

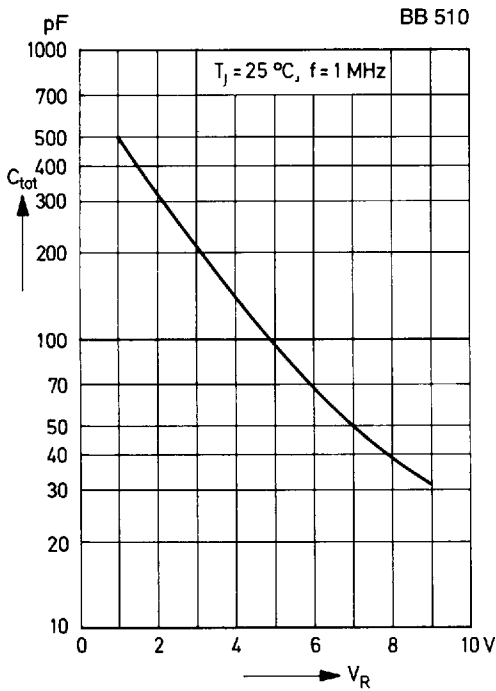
## Absolute Maximum Ratings

	Symbol	Value	Unit
Reverse Voltage	$V_R$	12	V
Junction Temperature	$T_J$	125	°C
Storage Temperature Range	$T_S$	-55 to +150	°C

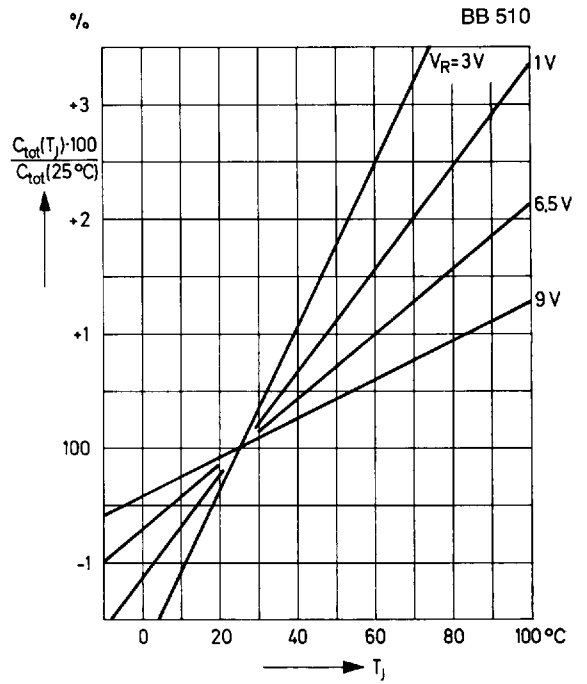
## Characteristics at $T_J = 25\text{ °C}$

	Symbol	Min.	Typ.	Max.	Unit
Capacitance at $f = 1\text{ MHz}$ at $V_R = 1\text{ V}$ at $V_R = 9\text{ V}$	$C_{tot}$	440	-	600	pF
	$C_{tot}$	20	-	40	pF
Effective Capacitance Ratio at $V_R = 1\text{ to }9\text{ V}$	$\frac{C_{tot}(1\text{ V})}{C_{tot}(9\text{ V})}$	15	-	-	-
Q-Factor at $V_R = 1\text{ V}, f = 1\text{ MHz}$	Q	-	200	-	-
Leakage Current at $V_R = 10\text{ V}$	$I_R$	-	-	30	nA
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	12	-	-	V

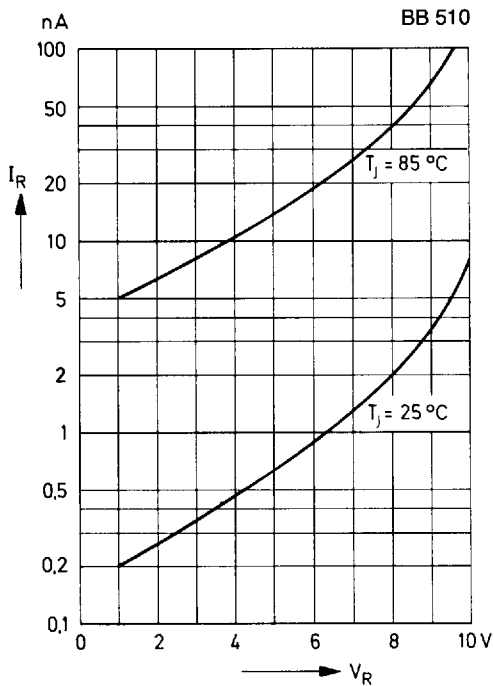
**Capacitance versus reverse voltage**



**Capacitance versus junction temperature (relative values)**



**Leakage current versus reverse voltage**



**Q-Factor versus frequency**

