

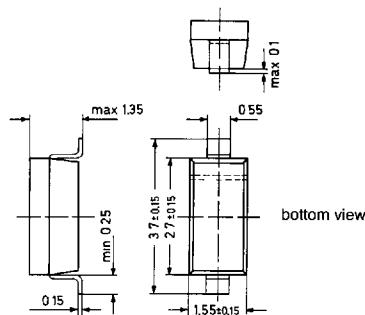
**Tuner Diode**

Silicon Epitaxial Planar Capacitance Diode with very wide effective capacitance variation for tuning the whole range of VHF CTV tuners.

These diodes are available as singles or as matched sets of two or more units according to the tracking condition described below.

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

These diodes are also available with straight leads. Overall length 14 mm (only bulk packaging).



Plastic Package ≈ 60 A2  
according to DIN IEC 47(CO)718

Weight approx. 0.013 g  
Dimension in mm

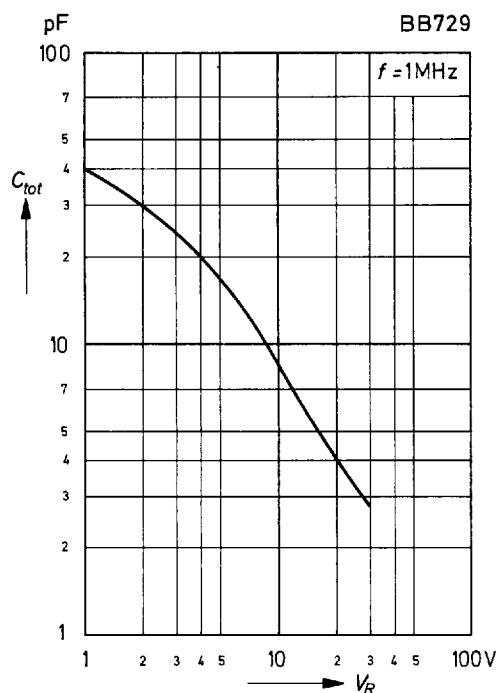
**Absolute Maximum Ratings**

	Symbol	Value		Unit
Reverse Voltage	$V_R$	32		V
Junction Temperature	$T_j$	125		°C
Storage Temperature Range	$T_S$	−55 to +125		°C

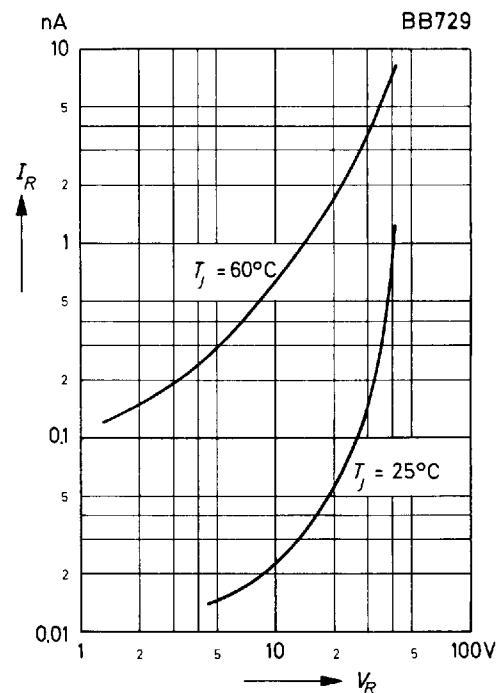
**Characteristics at  $T_j = 25$  °C**

	Symbol	Min.	Typ.	Max.	Unit
Capacitance at $V_R = 28$ V at $V_R = 25$ V at $V_R = 2$ V	$C_{tot}$ $C_{tot}$ $C_{tot}$	2.38 2.68 26.9	— — —	2.93 3.12 33.1	pF pF pF
Effective Capacitance Ratio at $V_R = 1$ to 28 V at $V_R = 2$ to 25 V	$\frac{C_{tot} (1 V)}{C_{tot} (28 V)}$ $\frac{C_{tot} (2 V)}{C_{tot} (25 V)}$	12 10	— —	— 11	— —
Series Resistance at $f = 470$ MHz, $C_{tot} = 25$ pF	$r_s$	—	—	0.8	Ω
Series Inductance	$L_s$	—	2.5	—	nH
Leakage Current at $V_R = 30$ V	$I_R$	—	—	10	nA
Reverse Breakdown Voltage at $I_R = 100$ μA	$V_{(BR)R}$	32	—	—	V
For any two of six consecutive diodes in the carrier tape the maximum capacitance deviation in the reverse bias voltage range of $V_R = 0.5$ V to $V_R = 28$ V is 2.5 %.					

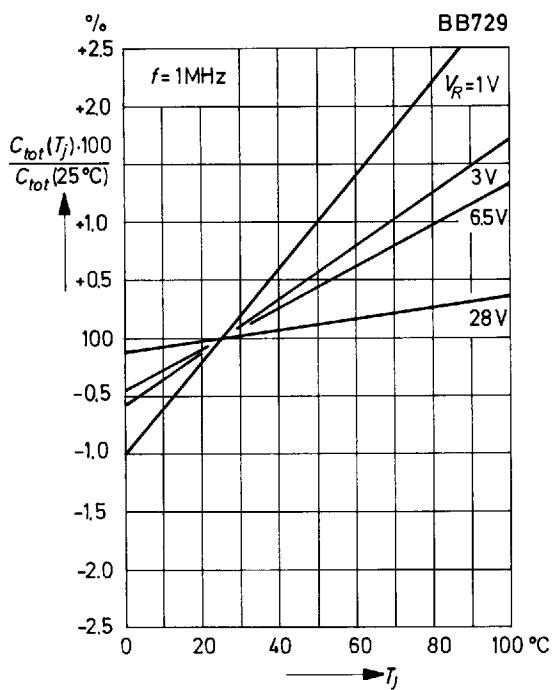
**Capacitance  
versus reverse voltage**



**Leakage current  
versus reverse voltage**



**Relative capacitance  
versus junction temperature**



**Q-Factor  
versus frequency**

