Silicon Tuning Diodes
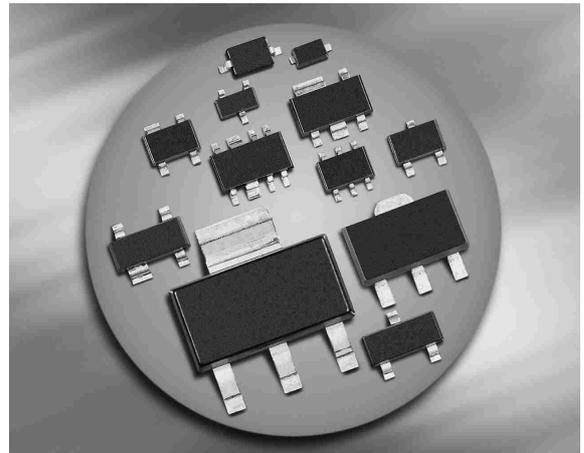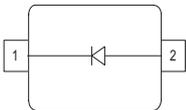
- Extended frequency range up to 2.5 GHz;
  spezial design for use in TV-sat tuners

- High capacitance ratio

- Pb-free (RoHS compliant) package

RoHS

BB833

Type	Package	Configuration	L_S(nH)	Marking
BB833	SOD323	single	1.8	white X

Maximum Ratings at T_A = 25°C, unless otherwise specified

Parameter	Symbol	Value	Unit
Diode reverse voltage	V_R	30	V
Peak reverse voltage- $R \geq 5k\Omega$	V_{RM}	35	
Forward current	I_F	20	mA
Operating temperature range	T_{op}	-55 ... 150	°C
Storage temperature	T_{stg}	-55 ... 150	

Electrical Characteristics at T_A = 25°C, unless otherwise specified

| Parameter	Symbol	Values			Unit
		min.	typ.	max.	
DC Characteristics					
Reverse current V_R = 30 V V_R = 30 V, T_A = 85 °C	I_R	- -	- -	20 500	nA
AC Characteristics					
Diode capacitance V_R = 1 V, f = 1 MHz V_R = 28 V, f = 1 MHz	C_T	8.5 0.6	9.3 0.75	10 0.9	pF
Capacitance ratio V_R = 1 V, V_R = 28 V, f = 1 MHz	C_{T1}/C_{T28}	11	12.4	-	
Capacitance matching[1] V_R = 1 V, V_R = 28 V, f = 1 MHz	$\Delta C_T/C_T$	-	-	3	%
Series resistance V_R = 1 V, f = 470 MHz	r_S	-	1.8	-	Ω

[1]For details please refer to Application Note 047.

Diode capacitance $C_T = f(V_R)$
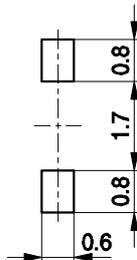f = 1MHz
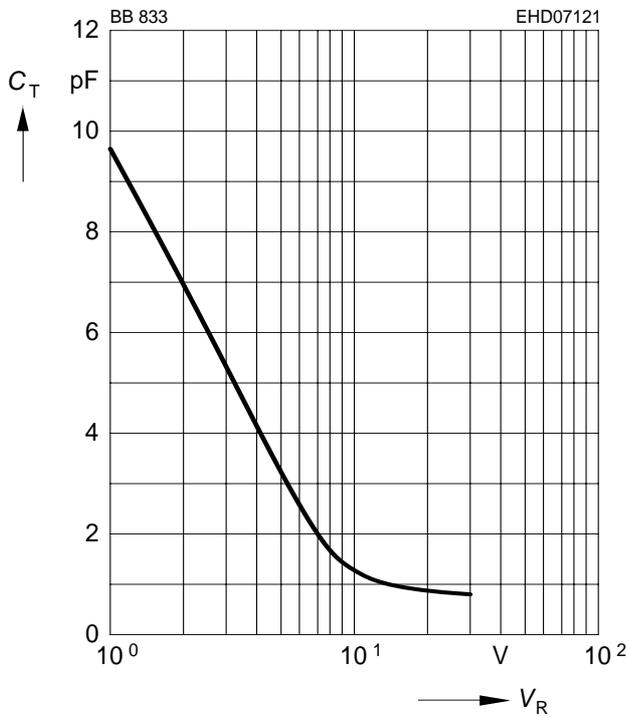
Temperature coefficient of the diode capacitance $T_{Cc} = f(V_R)$

2011-06-15
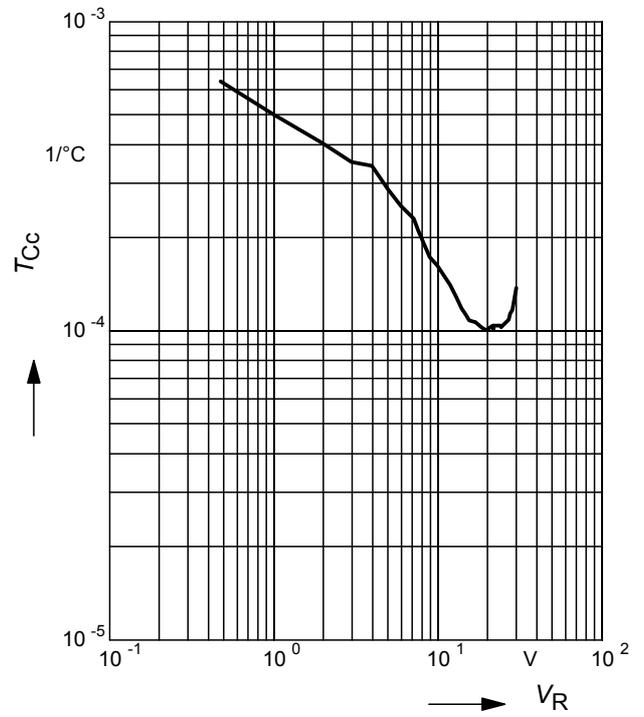
Package Outline
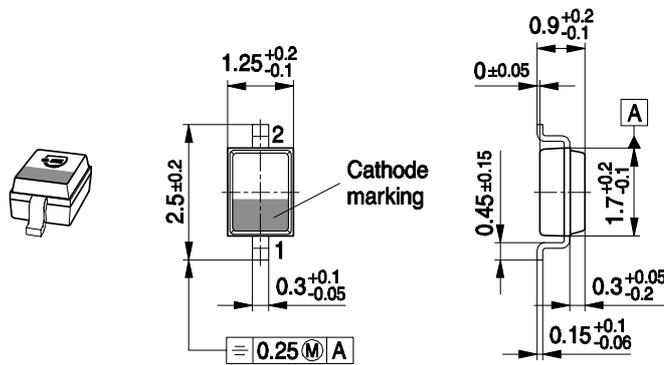
Foot Print

Marking Layout (Example)

BAR63-03W
Type code

Cathode marking
Color ink or laser marking
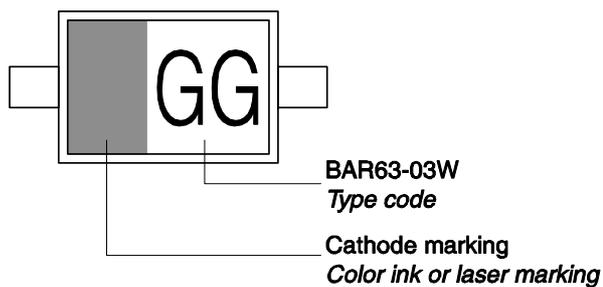
Standard Packing

Reel ø180 mm = 3.000 Pieces/Reel
Reel ø330 mm = 10.000 Pieces/Reel
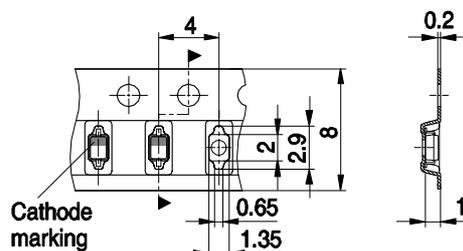
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