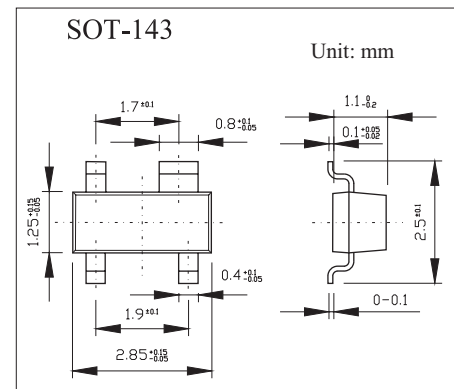


UHF variable capacitance double diode

BBY62

■ Features

- Excellent linearity
- Small plastic SMD package
- C28:1.9 pF; ratio: 8.3.

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Condition	Min	Max	Unit
continuous reverse voltage	V_R			200	V
continuous forward current	I_F	single diode loaded		225	mA
storage temperature	T_{stg}		-65	+150	$^\circ\text{C}$
operating junction temperature	T_j			150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
reverse current	I_R	$V_R = 28\text{ V}$			10	nA
		$V_R = 28\text{ V}; T_j = 85^\circ\text{C}$			200	nA
diode series resistance		$f = 470\text{ MHz}$; note 1			1.2	Ω
diode capacitance	C_d	$V_R = 1\text{ V}; f = 1\text{ MHz}$		16.5		pF
		$V_R = 28\text{ V}; f = 1\text{ MHz}$	1.6		2	pF
capacitance ratio	$\frac{C_d(1\text{ V})}{C_d(28\text{ V})}$	$f = 1\text{ MHz}$		8.3		

Note

1. V_R is the value at which $C_d = 9\text{ pF}$.

■ Marking

Marking	S4
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