MA27331

Silicon epitaxial planar type

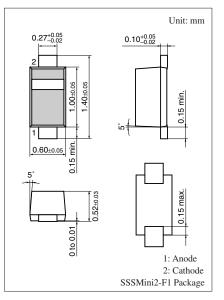
For VCO of a UHF radio

Features

- Good linearity of C V curve
- Small series resistance r_D
- SSS-Mini type package, optimum for downsizing of equipment

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	12	V
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol: A

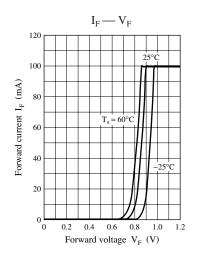
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

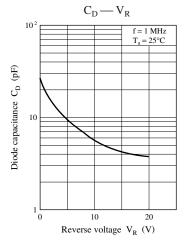
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	I _R	$V_R = 12 V$			10	nA
Diode capacitance	C _{D(1V)}	$V_{R} = 1 V, f = 1 MHz$	17.0		20.0	pF
	C _{D(2V)}	$V_{R} = 2 V, f = 1 MHz$	14.0	15.0	16.0	
	C _{D(4V)}	$V_{R} = 4 V, f = 1 MHz$	10.0		12.4	
	C _{D(10V)}	$V_{R} = 10 V, f = 1 MHz$	5.5	6.0	6.5	
Capacitance ratio	C _{D(1V)} /C _{D(4V)}		1.53	1.60	1.83	
	C _{D(2V)} /C _{D(10V)}		2.25	2.50	2.75	
Series resistance *	r _D	$C_{\rm D} = 9 \text{ pF}, \text{ f} = 470 \text{ MHz}$		0.18	0.22	Ω

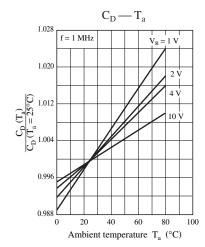
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

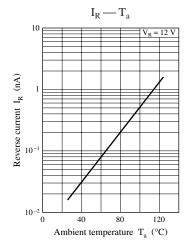
2. Absolute frequency of input and output is 470 MHz.

3. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER









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