MA27V12

Silicon epitaxial planar type

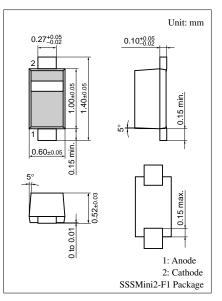
For VCO

Features

- \bullet Good linearity and large capacitance-ratio in C_D V_R relation
- High frequency type by this low capacitance
- Ultraminiature Package 1.0 mm × 0.6 mm (height: 0.52 mm), optimum for high-density mounting and high-spped mounting

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V _R	8	V
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



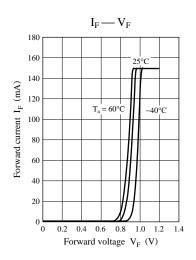
Marking Symbol: E

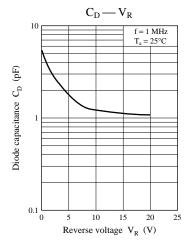
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

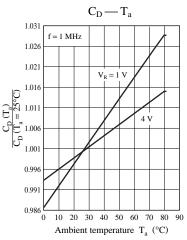
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current (DC)	I _R	$V_R = 5 V$			10	nA
Diode capacitance	C _{D(1V)}	$V_R = 1 V, f = 1 MHz$	3.60		3.90	pF
	C _{D(4V)}	$V_R = 4 V, f = 1 MHz$	1.97		2.14	
Capacitance ratio	C _{D(1V)} /C _{D(4V)}		1.75		1.90	
Series resistance *	r _D	$V_{R} = 4 V, f = 470 MHz$			0.35	Ω

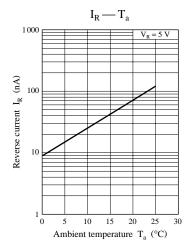
Note) 1. Rated input/output frequency: 470 MHz

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









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