

MA2SV07

Silicon epitaxial planar type

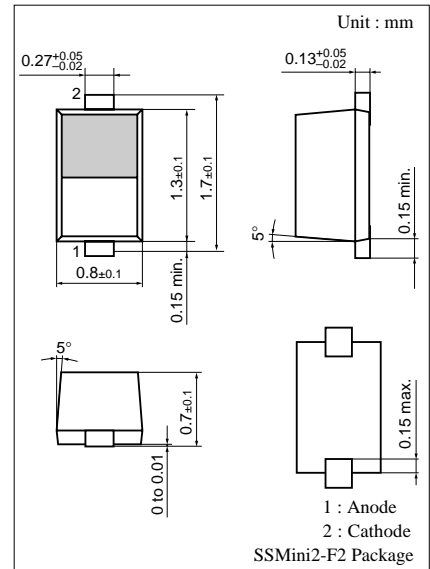
For VCO

■ Features

- Good linearity and large capacitance-ratio in C_D — V_R relation
- High frequency type by this low capacitance
- Small series resistance r_D
- SS-mini type package, allowing downsizing of equipment and automatic insertion through the taping package

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

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	6	V
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol: 1A

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	$V_R = 5 \text{ V}$			10	nA
Diode capacitance	$C_{D(1V)}$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	2.88		3.12	pF
	$C_{D(3V)}$	$V_R = 3 \text{ V}, f = 1 \text{ MHz}$	1.49		1.62	pF
Capacitance ratio	$C_{D(1V)}/C_{D(3V)}$		1.84		2.02	—
Series resistance*	r_D	$V_R = 3 \text{ V}, f = 470 \text{ MHz}$			0.35	Ω

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

2 .*: r_f measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

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