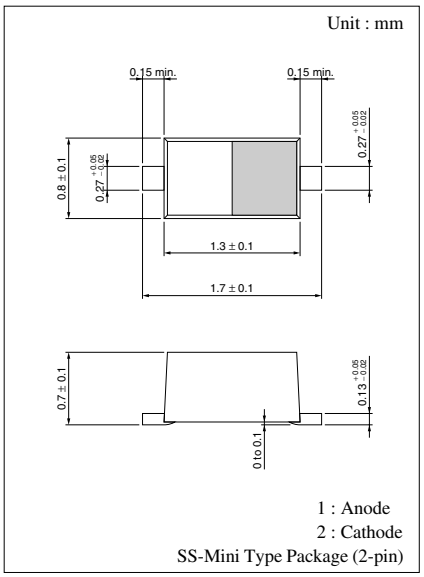
MA2SV03

Silicon epitaxial planar type

For VCO



Marking Symbol: 4

■ Features

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

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Reverse voltage (DC)	V_R	6	V
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	−55 to +150	°C

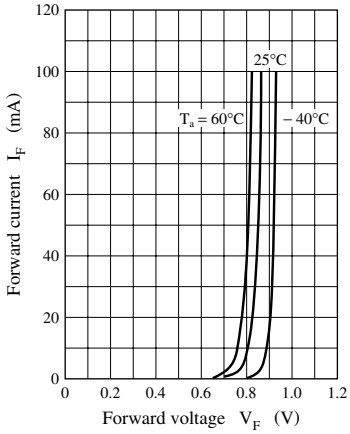
■ Electrical Characteristics $T_a = 25°C$

Parameter	Symbol	Conditions	Min	Typ	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	5.20		5.80	pF
	$C_{D(4V)}$	V_R = 4 V, f = 1 MHz	2.10		2.58	pF
Capacitance ratio	$C_{D(1V)}/C_{D(4V)}$		2.1		2.6	—
Series resistance*	r_D	V_R = 4 V, f = 470 MHz			0.3	Ω

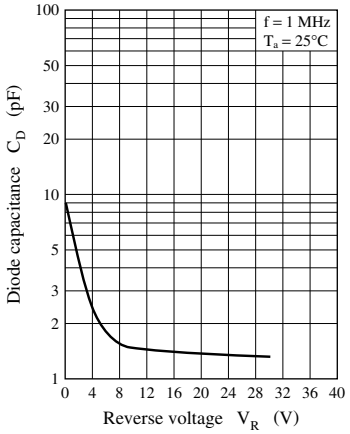
Note) 1. Rated input/output frequency: 470 MHz

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

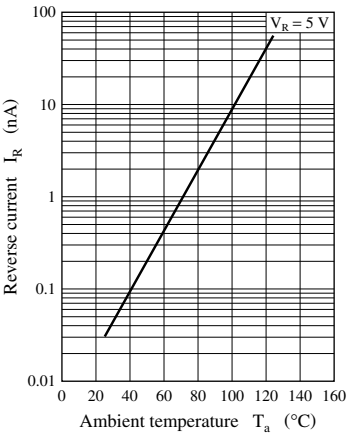
I_F — V_F



C_D — V_R



I_R — T_a



C_D — T_a

