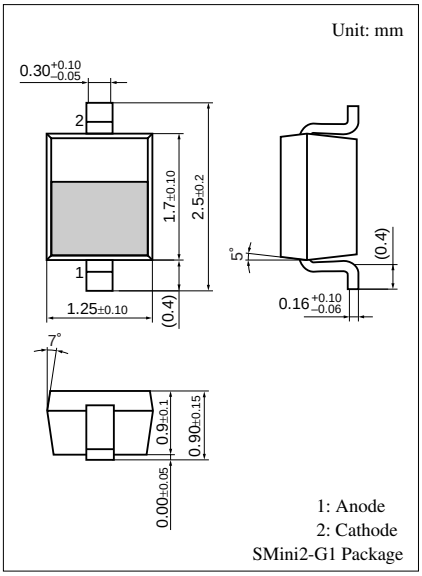
MA2ZV01

Silicon epitaxial planar type

For VCO

■ Features

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



Marking Symbol: 7X

■ 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

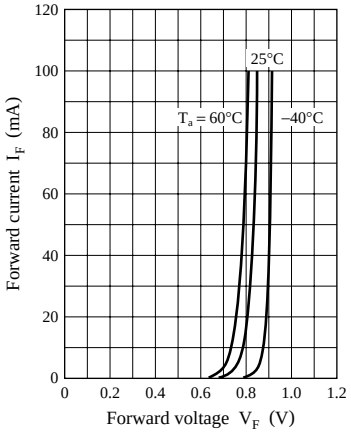
■ Electrical Characteristics $T_a = 25°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current (DC)	I_R	V_R = 6 V			10	nA
Diode capacitance	$C_{D(1V)}$	V_R = 1 V, f = 1 MHz	15.0		17.0	pF
	$C_{D(3V)}$	V_R = 3 V, f = 1 MHz	5.0		7.0	
Capacitance ratio	$C_{D(1V)}$ /$C_{D(3V)}$		2.2			—
Series resistance *	r_D	C_D = 9 pF, f = 470 MHz			1.0	Ω

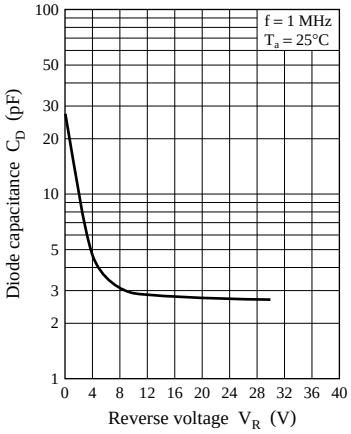
Note) 1. Rated input/output frequency: 470 MHz

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

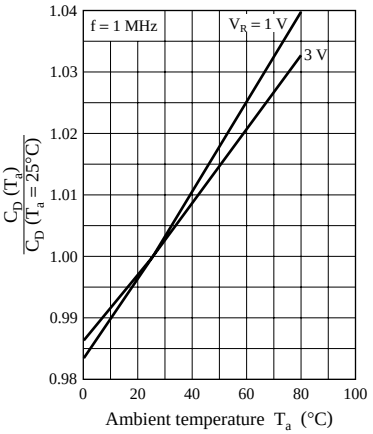
I_F — V_F



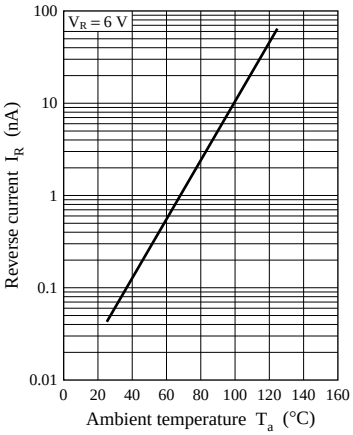
C_D — V_R



C_D — T_a



I_R — T_a



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