MA27V01

Silicon epitaxial planar type

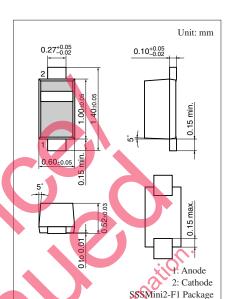
For VCO

Features

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

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	6	V
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



Marking Symbol:

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

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Parameter	Symbol	Conditions	Min	Тур	Max	Unit		
Reverse current	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, $T = 1$ MHz	5.0		7.0			
Capacitance ratio	$C_{D(1V)}/C_{D(3V)}$		2.2					
Series resistance *	r _D	$C_{\rm D} = 9 \text{pF}$ f = 470 MHz			1.0	Ω		

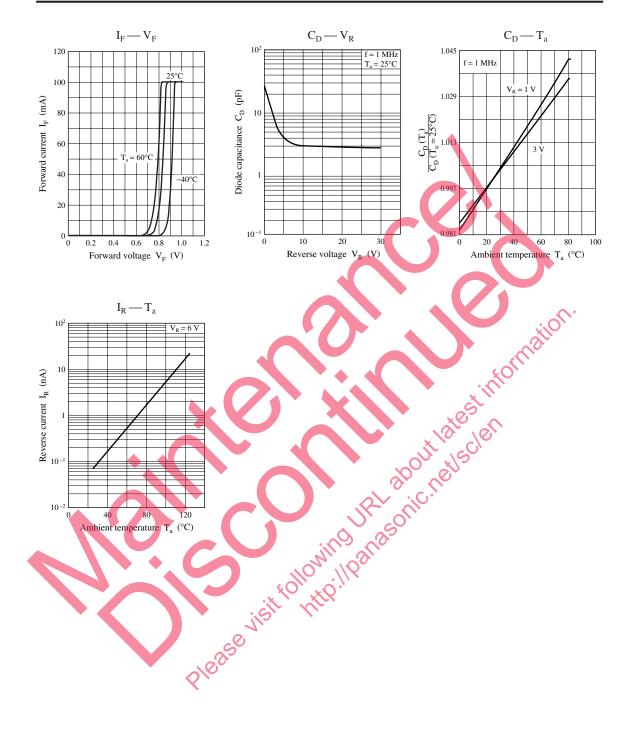
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

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

MA27V01

Panasonic



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