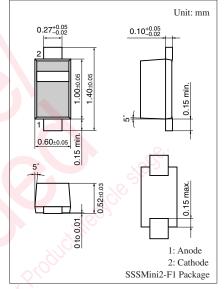
MA27V11

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-speed mounting



Marking Symbol: D

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

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

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

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current		IR	$V_R = 5 V$	00	SOL	10	nA
Diode capacitance		C _{D(1V)}	$V_R = 1 V, f = 1 MHz$	2.77	0	3.01	pF
		C _{D(4V)}	$V_R = 4 V, f = 1 MHz$	1.23		1.34	
Capacitance ratio		C _{D(1V)} /C _{D(4V)}		2.16		2.34	
Series resistance *	200	r _D	$V_{R} = 4 V, f = 470 MHz$			0.35	Ω

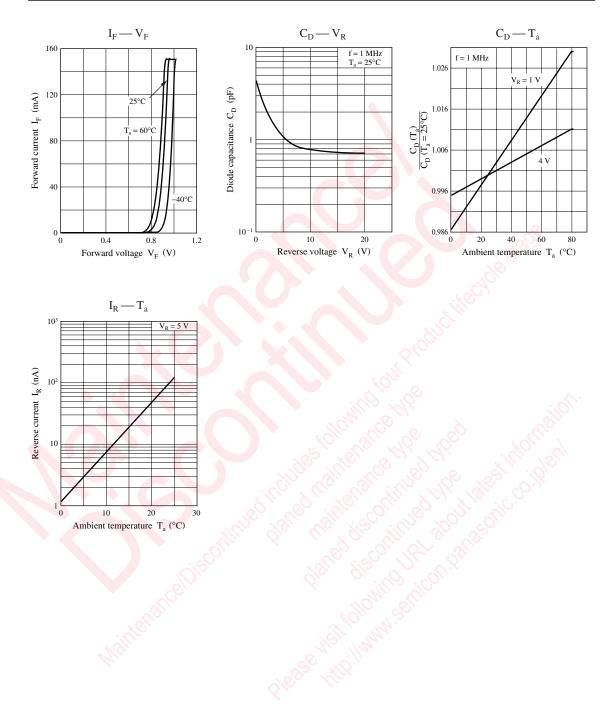
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

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

MA27V11





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