MA27V01

Silicon epitaxial planar type

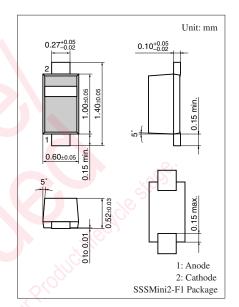
For VCO

■ 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 $T_a = 25$ °C

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



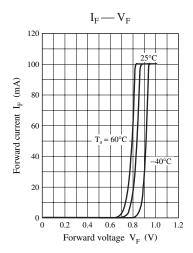
Marking Symbol: 1

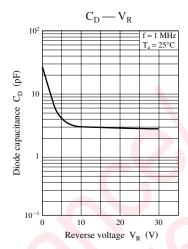
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

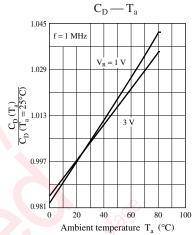
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Reverse current		I_R	$V_R = 6 \text{ V}$	100	0,,	10	nA
Diode capacitance		$C_{D(1V)}$	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$	15.0	0.	17.0	pF
		$C_{D(3V)}$	$V_R = 3 \text{ V, f} = 1 \text{ MHz}$	5.0		7.0	
Capacitance ratio		C _{D(1V)} /C _{D(3V)}	612 C. 110 1CC	2.2			_
Series resistance *	~Cp.	r_{D}	$C_D = 9 \text{ pF, f} = 470 \text{ MHz}$			1.0	Ω

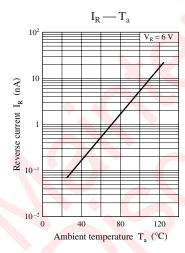
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Absolute frequency of input and output is 470 MHz.
- 3. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER









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