

MA27V16

Silicon epitaxial planar type

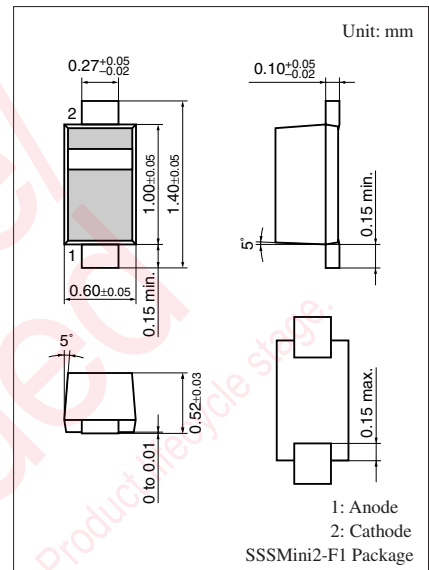
For VCO

■ Features

- Good linearity and large capacitance-ratio in $C_D - V_R$ relation
- Small series resistance r_D

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

Parameter	Symbol	Rating	Unit
Reverse voltage	V_R	6	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$



Marking Symbol: K

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I_R	$V_R = 5 \text{ V}$			10	nA
Diode capacitance	$C_{D(1V)}$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	17.45		18.95	pF
	$C_{D(3V)}$	$V_R = 3 \text{ V}, f = 1 \text{ MHz}$	7.73		8.37	
Capacitance ratio	$C_{D(1V)} / C_{D(3V)}$		2.17		2.35	—
Series resistance *	r_D	$V_R = 3 \text{ V}, f = 470 \text{ MHz}$			0.30	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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