# **MA26V07**

## Silicon epitaxial planar type

#### For VCO

#### ■ Features

- $\bullet$  Good linearity and large capacitance-ratio in  $C_D V_R$  relation
- Small series resistance r<sub>D</sub>
- High frequency type by this low capacitance

## ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	6	V
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C



Marking Symbol: 2K

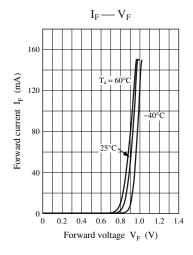
## ■ Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

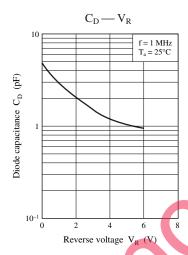
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse current	$I_R$	$V_R = 5 \text{ V}$			10	nA
Diode capacitance	$C_{DIV}$	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$	2.88		3.12	pF
	$C_{D3V}$	$V_R = 3 V Y = 1 MHz$	1.49		1.62	
Capacitance ratio	C <sub>D1V</sub> /C <sub>D3V</sub>		1.84		2.02	_
Series resistance *	$r_{\mathrm{D}}$	$V_R = 3 \text{ V, } f = 470 \text{ MHz}$			0.35	Ω

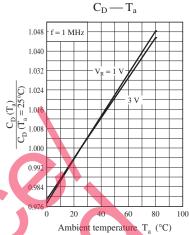
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

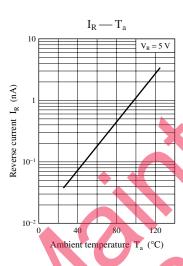
- 2. Absolute frequency of input and output is 470 MHz.
- 3. \*: Measuring instrument: YHP MODEL 4191A RF IMPEDANCE ANALYZER

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