# MA27V01

### Silicon epitaxial planar type

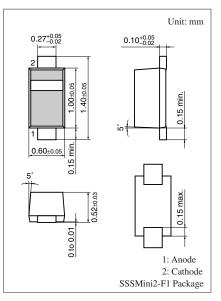
### For VCO

#### Features

- Good linearity and large capacitance-ratio in  $C_D V_R$  relation
- Small series resistance r<sub>D</sub>
- 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 <sub>R</sub>	6	V
Junction temperature	Tj	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C



Marking Symbol: 1

#### Parameter Symbol Conditions Min Тур Max Unit $V_R = 6 V$ 10 Reverse current I<sub>R</sub> nA $V_R = 1 V, f = 1 MHz$ pF Diode capacitance $C_{D(1V)}$ 15.0 17.0 $V_R = 3 V, f = 1 MHz$ 5.0 7.0 C<sub>D(3V)</sub> Capacitance ratio 2.2 C<sub>D(1V)</sub> /C<sub>D(3V)</sub> Series resistance \* $r_{\rm D}$ $C_D = 9 \text{ pF}, \text{ f} = 470 \text{ MHz}$ 1.0 Ω

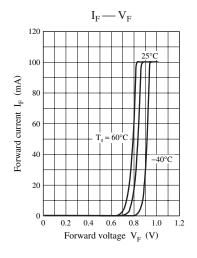
### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

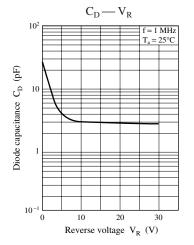
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

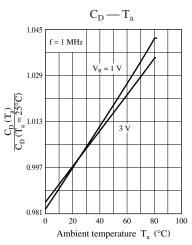
2. Absolute frequency of input and output is 470 MHz.

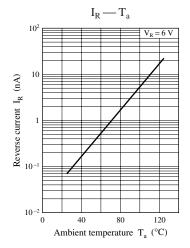
3. \*: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

## Panasonic









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