MA27V19

Silicon epitaxial planar type

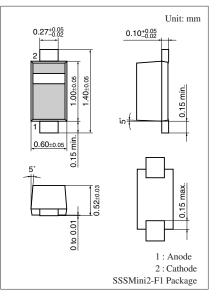
For VCO

Features

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

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

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



Marking Symbol: N

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

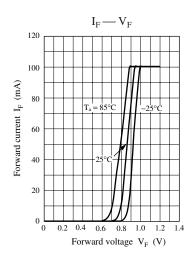
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|---------------------|----------------------------------------|----------------------------|------|-----|------|------|
| Reverse current | I _R | $V_R = 5 V$ | | | 10 | nA |
| Diode capacitance | C _{D(1V)} | $V_R = 1 V, f = 1 MHz$ | 2.30 | | 2.50 | pF |
| | C _{D(3V)} | $V_R = 3 V, f = 1 MHz$ | 1.18 | | 1.28 | |
| Capacitance ratio | C _{D(1V)} /C _{D(3V)} | | 1.87 | | 2.03 | |
| Series resistance * | r _D | $V_{R} = 3 V, f = 470 MHz$ | | | 0.35 | Ω |

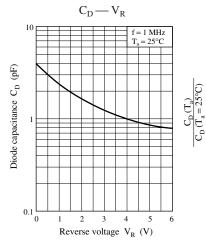
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

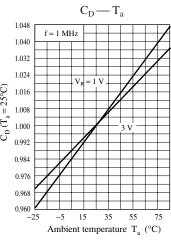
2. Absolute frequency of input and output is 470 MHz

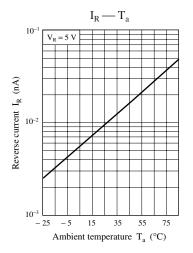
3. *: Measuring instrument; YHP MODEL 4191A RF IMPEDANCE ANALYZER

Panasonic









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