MA26V15

Silicon epitaxial planar type

For VCO

Features

- \bullet Good linearity and large capacitance-ratio in C_D V_R relation
- Small series resistance rD

Parameter

• High frequency type by this low capacitance

Unit: mm 0.60±0. 1.00±0.0 0.39+0 0.65±0.01 1: Anode 2: N.C. 3: Cathode ML3-N2 Package

Marking Symbol: 2N

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

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

Symbol Bating

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

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|---------------------|--|----------------------------|------|-----|------|------|
| Reverse current | IR | $V_R = 5 V$ | 00 | c0/ | 10 | nA |
| Diode capacitance | C _{D(0.5V)} | $V_{R} = 0.5 V, f = 1 MHz$ | 7.30 | 0- | 7.91 | pF |
| | C _{D(2.5V)} | $V_{R} = 2.5 V, f = 1 MHz$ | 2.98 | | 3.23 | |
| Capacitance ratio | C _{D(0.5V)} /C _{D(2.5V)} | | 2.35 | | 2.55 | — |
| Series resistance * | r _D | $V_R = 1 V, f = 470 MHz$ | | | 0.45 | Ω |

Unit

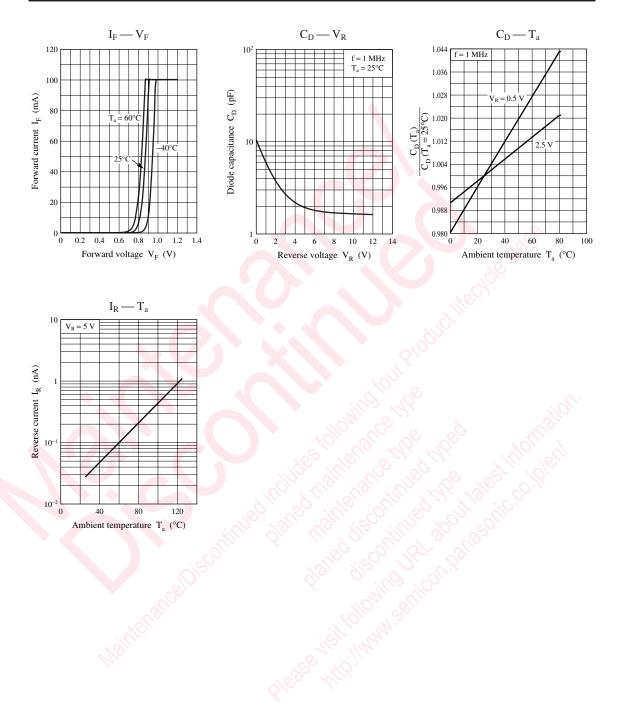
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 470 MHz

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

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