MA2YD17

Silicon epitaxial planar type

For high frequency rectification

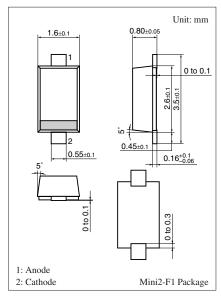
■ Features

• Reverse voltage $V_R = 100 \text{ V}$ is guaranteed

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit |
|---|--------------------|-------------|------|
| Reverse voltage | V_R | 100 | V |
| Maximum peak reverse voltage | V_{RM} | 100 | V |
| Forward current (Average) | I _{F(AV)} | 300 | mA |
| Non-repetitive peak forward surge current * | I_{FSM} | 1.5 | A |
| Junction temperature | T _j | 125 | °C |
| Storage temperature | T_{stg} | -55 to +125 | °C |

Note) *: The peak-to-peak value in one cycle of 50 Hz sine wave (non-repetitive)

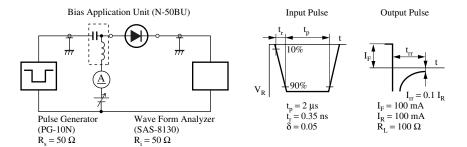


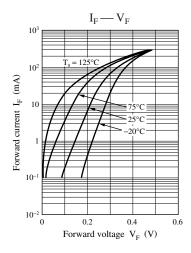
Marking Symbol: 2T

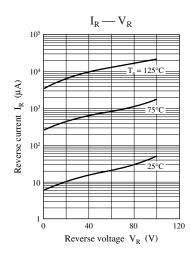
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

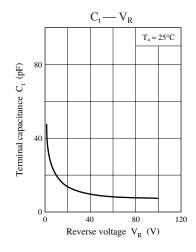
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|-------------------------|-----------------|--------------------------------------|-----|------|------|------|
| Forward voltage | V_F | $I_F = 300 \text{ mA}$ | | 0.50 | 0.58 | V |
| Reverse current | I_R | $V_{R} = 100 \text{ V}$ | | | 200 | μΑ |
| Terminal capacitance | C _t | $V_R = 0 V, f = 1 MHz$ | | 100 | | pF |
| Reverse recovery time * | t _{rr} | $I_F = I_R = 100 \text{ mA}$ | | 7 | | ns |
| | | $I_{rr} = 0.1 I_R, R_L = 100 \Omega$ | | | | |

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. *: t_{rr} measurement circuit









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