MA27D29

Silicon epitaxial planar type

For super high speed switching

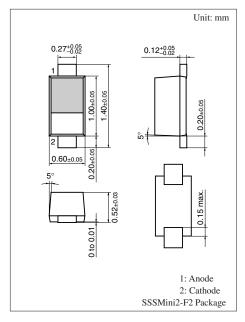
■ Features

- Low forward voltage: $V_F < 0.42 \text{ V}$ (at $I_F = 100 \text{ mA}$)
- \bullet Optimum for high frequency rectification because of its short reverse recovery time t_{rr} .

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit |
|---------------------------------|--------------------|-------------|------|
| Reverse voltage | V_R | 30 | V |
| Repetitive peak reverse voltage | V_{RRM} | 30 | V |
| Forward current (Average) | I _{F(AV)} | 100 | mA |
| Peak forward current | I_{FM} | 200 | mA |
| Non-repetitive peak forward | I_{FSM} | 1 | A |
| surge current * | | | |
| 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)



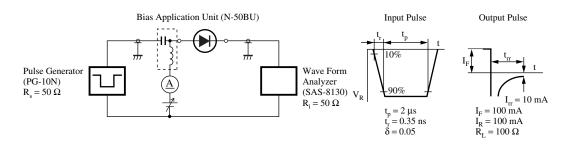
Marking Symbol: 8M

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

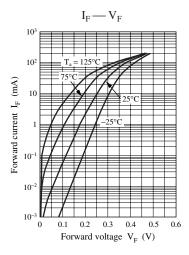
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|-------------------------|-----------------|--|-----|------|------|------|
| Forward voltage | V _{F1} | $I_F = 10 \text{ mA}$ | | 0.25 | 0.29 | V |
| | V _{F2} | $I_F = 100 \text{ mA}$ | | 0.39 | 0.42 | V |
| Reverse current | I_{R1} | $V_R = 10 \text{ V}$ | | | 25 | μΑ |
| | I_{R2} | $V_R = 30 \text{ V}$ | | | 120 | μΑ |
| Terminal capacitance | C _t | $V_R = 0 V, f = 1 MHz$ | | 11 | | pF |
| Reverse recovery time * | t _{rr} | $I_F = I_R = 100 \text{ mA}$ | | 1 | | ns |
| | | $I_{rr} = 10 \text{ mA}, R_{L} = 100 \Omega$ | | | | |

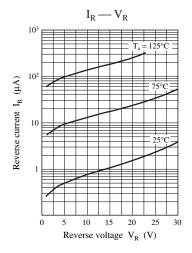
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

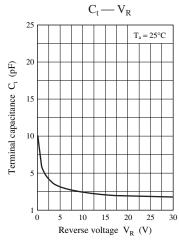
- 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
- 3. Absolute frequency of input and output is 250 MHz
- 4. *: t_{rr} measurement circuit



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