MA3XD17

Silicon epitaxial planar type

For high frequency rectification

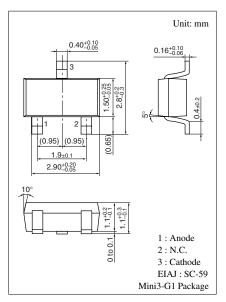
■ Features

- $V_R = 100 \text{ V}$ is guaranteed
- Mini type 3-pin package

■ Absolute Maximum Ratings $T_a = 25$ °C

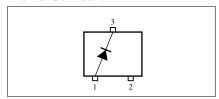
| Parameter | Symbol | Rating | Unit |
|---|--------------------|-------------|------|
| Reverse voltage (DC) | V_R | 100 | V |
| Peak reverse voltage | V_{RM} | 100 | V |
| Non-repetitive peak forward- surge-current * | I _{FSM} | 1.5 | A |
| Average forward current | I _{F(AV)} | 300 | mA |
| Junction temperature | T_{j} | 125 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

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



Marking Symbol: M5K

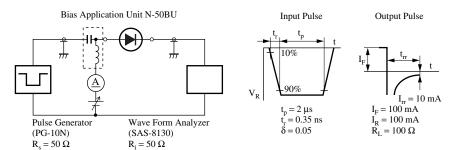
Internal Connection



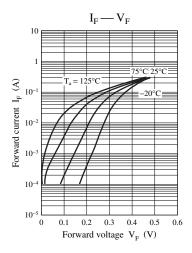
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

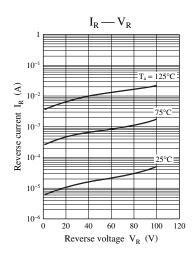
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|-------------------------|-----------------|--|-----|------|------|------|
| Reverse current (DC) | I_R | $V_R = 100 \text{ V}$ | | | 200 | μΑ |
| Forward voltage (DC) | V _F | $I_F = 300 \text{ mA}$ | | 0.50 | 0.58 | V |
| Terminal capacitance | 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 |
| | | $I_{rr} = 10 \text{ mA}, R_{L} = 100 \Omega$ | | | | |

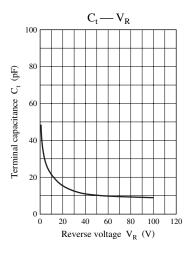
- Note) 1. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 2. Rated input/output frequency: 250 MHz $\,$ 3. *: t_{rr} measuring instrument



MA3XD17 Panasonic







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