MA2Z785 (MA785)

Silicon epitaxial planar type

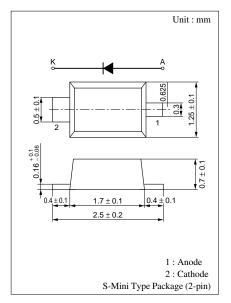
For super-high speed switching circuit For small current rectification

■ Features

- S-mini type 2-pin package, allowing high-density mounting
- Allowing to rectify under $(I_{F(AV)} = 100 \text{ mA})$ condition
- Optimum for high-frequency rectification because of its short reverse recovery time (t_{rr})
- Low V_F (forward rise voltage), with high rectification efficiency
- Reverse voltage V_R (DC value) = 50 V guaranteed

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit |
|--|--------------------|-------------|------|
| Reverse voltage (DC) | V_R | 50 | V |
| Repetitive peak reverse voltage | V_{RRM} | 50 | V |
| Peak forward current | I_{FM} | 300 | mA |
| Average forward current | I _{F(AV)} | 100 | mA |
| Non-repetitive peak forward surge current* | I_{FSM} | 1 | A |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | T_{stg} | -55 to +125 | °C |



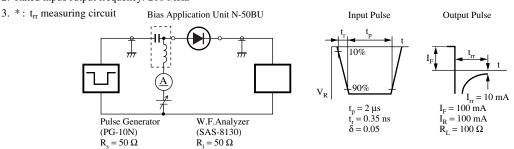
Marking Symbol: 2E

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

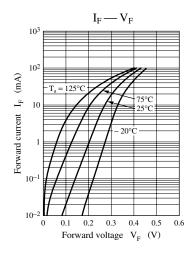
■ Electrical Characteristics $T_a = 25$ °C

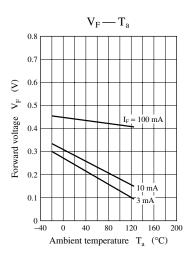
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|------------------------|-----------------|--|-----|-----|------|------|
| Reverse current (DC) | I_R | $V_R = 50 \text{ V}$ | | | 30 | μΑ |
| Forward voltage (DC) | $V_{\rm F}$ | $I_F = 100 \text{ mA}$ | | | 0.55 | V |
| Terminal capacitance | C _t | $V_R = 0 \text{ V, f} = 1 \text{ MHz}$ | | 25 | | pF |
| Reverse recovery time* | t _{rr} | $I_F = I_R = 100 \text{ mA}$ $I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$ | | 3 | | ns |

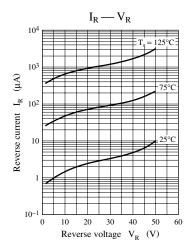
- Note) 1. Schottky barrier diode is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 2. Rated input/output frequency: 200 MHz

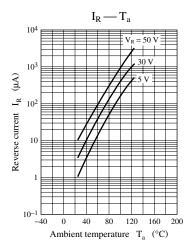


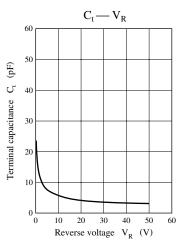
Note) The part number in the parenthesis shows conventional part number.











Panasonic 599

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