## MA2HD08

## Silicon epitaxial planar type

For high-frequency rectification

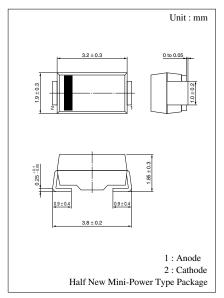
#### ■ Features

- Small and thin Half New Mini-power package
- Allowing to rectify under  $(I_{F(AV)} = 1 A)$  condition

### ■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter                                  | Symbol             | Rating      | Unit |
|--|--------------------|-------------|------|
| Reverse voltage (DC)                       | $V_R$              | 30          | V    |
| Repetitive peak reverse voltage            | $V_{RRM}$          | 30          | V    |
| Average forward current                    | I <sub>F(AV)</sub> | 1           | A    |
| Non-repetitive peak forward surge current* | $I_{FSM}$          | 25          | A    |
| Junction temperature                       | T <sub>j</sub>     | 125         | °C   |
| Storage temperature                        | $T_{stg}$          | -40 to +125 | °C   |

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



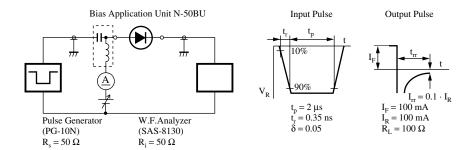
Marking Symbol: PP

#### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

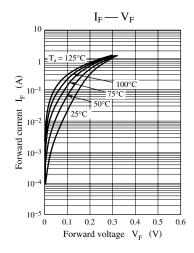
| Parameter              | Symbol           | Conditions                                     | Min | Тур | Max  | Unit |
|------------------------|------------------|--|-----|-----|------|------|
| Reverse current (DC)   | $I_R$            | $V_R = 30 \text{ V}$                           |     |     | 13   | mA   |
| Forward voltage (DC)   | $V_{\mathrm{F}}$ | $I_F = 1 A$                                    |     |     | 0.30 | V    |
| Terminal capacitance   | C <sub>t</sub>   | $V_R = 10 \text{ V}, f = 1 \text{ MHz}$        |     | 50  |      | pF   |
| Reverse recovery time* | t <sub>rr</sub>  | $I_F = I_R = 100 \text{ mA}$                   |     | 15  |      | ns   |
|                        |                  | $I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$ |     |     |      |      |

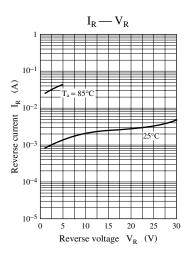
Note) 1. Rated input/output frequency: 20 MHz

2. \*: t<sub>rr</sub> measuring instrument



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