

MA2H735

Silicon epitaxial planar type

For high frequency rectification

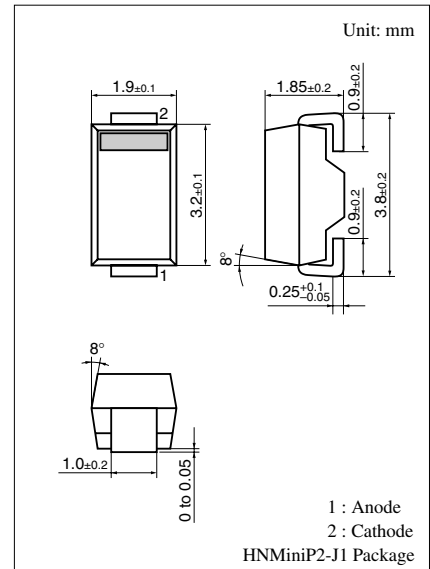
■ Features

- $I_{F(AV)} = 1$ A rectification is possible
- Low forward voltage: $V_F < 0.50$ V (at $I_F = 1$ A)
- Half New Mini-power package

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|---|-------------|-------------|------------------|
| Reverse voltage (DC) | V_R | 30 | V |
| Repetitive peak reverse-voltage | V_{RRM} | 30 | V |
| Average forward current | $I_{F(AV)}$ | 1 | A |
| Non-repetitive peak forward-surge-current * | I_{FSM} | 30 | A |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40 to +125 | $^\circ\text{C}$ |

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



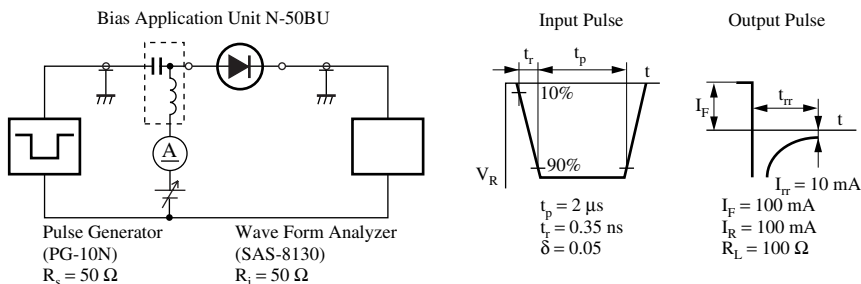
Marking Symbol: A

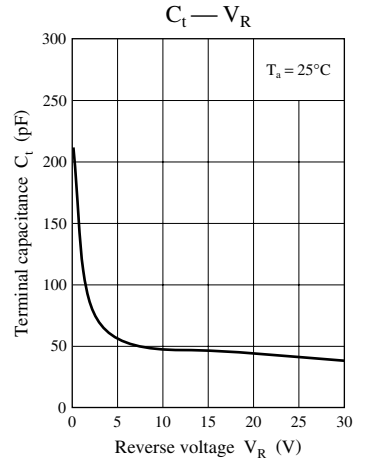
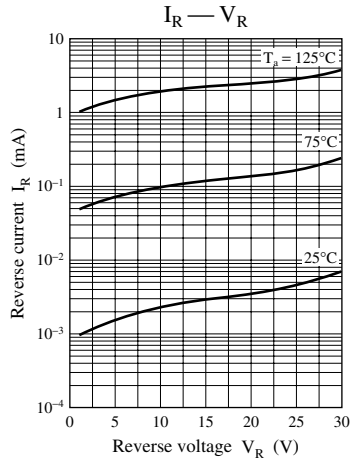
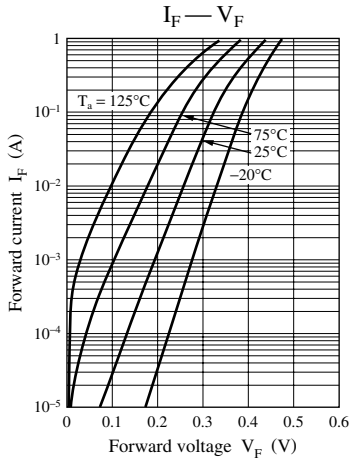
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|------|------|
| Reverse current (DC) | I_R | $V_R = 30$ V | | | 1 | mA |
| Forward voltage (DC) | V_F | $I_F = 1$ A | | | 0.50 | V |
| Terminal capacitance | C_t | $V_R = 10$ V, $f = 1$ MHz | | 50 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ Ω | | | 30 | ns |

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

2. *: t_{rr} measuring instrument





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