

MA3Z792D (MA792WA), MA3Z792E (MA792WK)

Silicon epitaxial planar type

For super high speed switching

For small current rectification

■ Features

- Two MA3Z792 (MA792) is contained in one package
- Forward current (Average) $I_{F(AV)} = 100$ mA rectification is possible
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}
- Low forward voltage V_F and good rectification efficiency

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

| Parameter | Symbol | Rating | Unit |
|--|-----------|-------------|------------------|
| Reverse voltage | V_R | 30 | V |
| Repetitive peak reverse voltage | V_{RRM} | 30 | V |
| Forward current | Single | I_F | 100 |
| | Double *1 | | |
| Peak forward current | Single | I_{FM} | 300 |
| | Double *1 | | |
| Non-repetitive peak forward surge current *2 | I_{FSM} | 1 | A |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

Note) *1: Value of each diode in double diodes used.

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

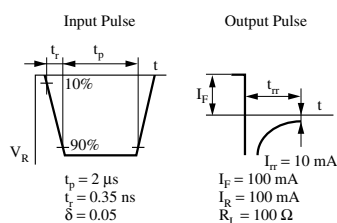
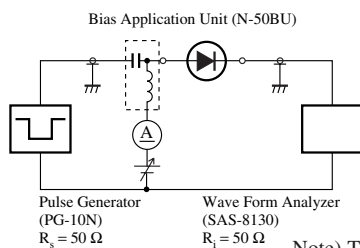
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|-----|------|---------------|
| Forward voltage | V_F | $I_F = 100$ mA | | | 0.55 | V |
| Reverse current | I_R | $V_R = 30$ V | | | 15 | μA |
| Terminal capacitance | C_t | $V_R = 0$ V, $f = 1$ MHz | | 20 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 100$ mA $I_{rr} = 10$ mA, $R_L = 100$ Ω | | 2 | | ns |

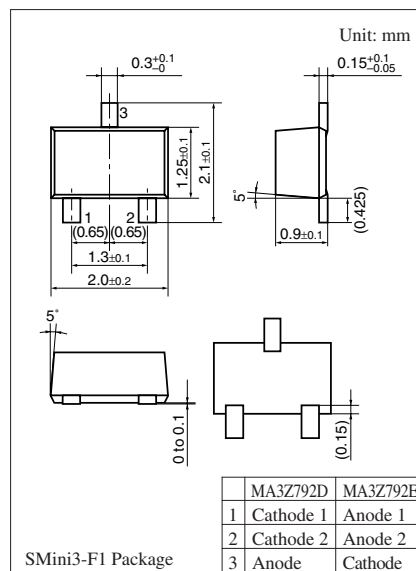
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

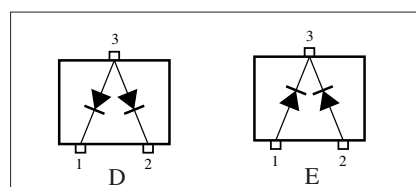
Note) The part numbers in the parenthesis show conventional part number.

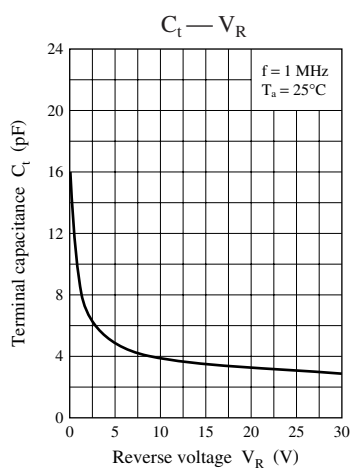
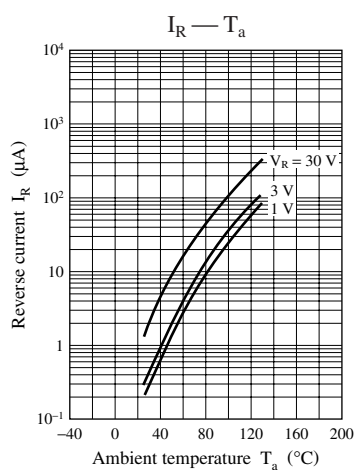
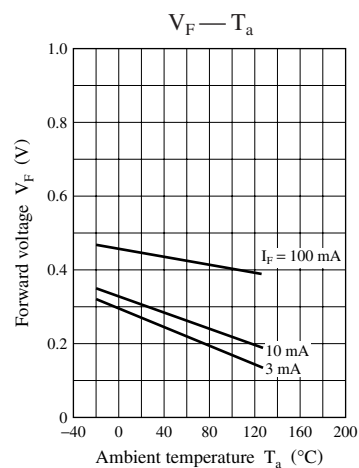
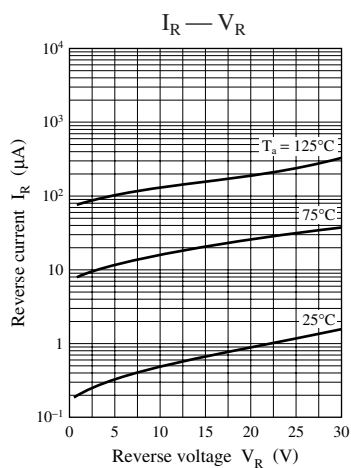
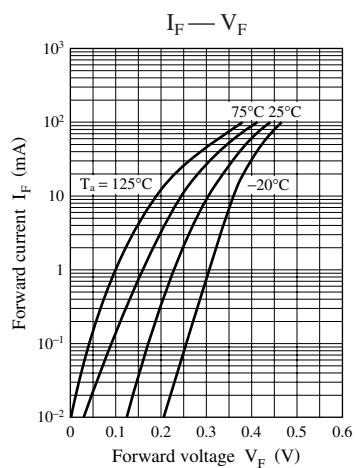


Marking Symbol

- MA3Z792D: M3Y
- MA3Z792E: M3Z

Internal Connection





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