

MA3X789

Silicon epitaxial planar type

For super-high speed switching circuit

For small current rectification

■ Features

- Allowing to rectify under ($I_{F(AV)} = 200 \text{ mA}$) condition
- Reverse voltage V_R (DC value) = 60 V guaranteed

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

| Parameter | Symbol | Rating | Unit |
|--|-------------|-------------|------------------|
| Reverse voltage (DC) | V_R | 60 | V |
| Peak reverse voltage | V_{RM} | 60 | V |
| Average forward current | $I_{F(AV)}$ | 500 | mA |
| Non-repetitive peak forward surge current* | I_{FSM} | 2 | A |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

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

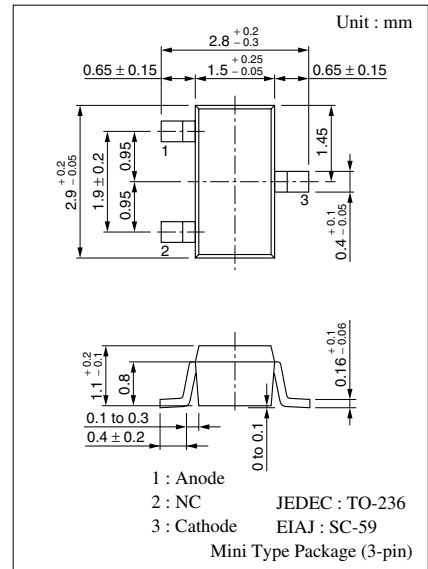
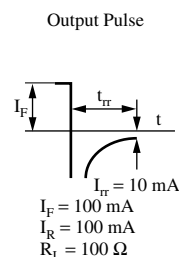
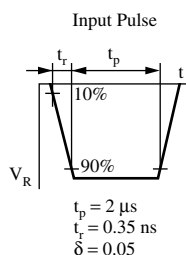
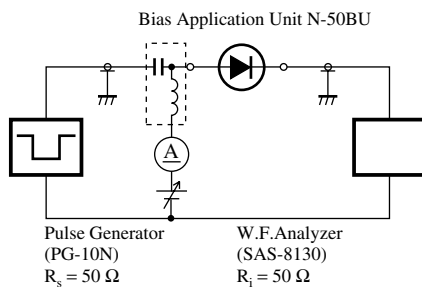
■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|------------------------|----------|--|-----|-----|------|---------------|
| Reverse current (DC) | I_R | $V_R = 50 \text{ V}$ | | | 100 | μA |
| Forward voltage (DC) | V_F | $I_F = 500 \text{ mA}$ | | | 0.65 | V |
| Terminal capacitance | C_t | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$ | | 60 | | pF |
| Reverse recovery time* | t_{rr} | $I_F = I_R = 100 \text{ mA}$ $I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$ | | 4.5 | | 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: 100 MHz

3. *: t_{rr} measuring circuit



Marking Symbol: M3W

Internal Connection

