MA6X124 (MA124)

Silicon epitaxial planar type

For switching circuit

■ Features

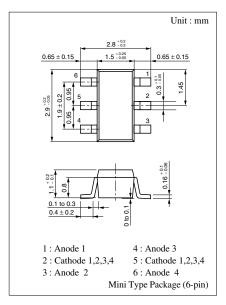
- Four-element contained in one package, allowing high-density mounting
- Centrosymmetrical wiring, allowing to free from the taping direction
- Short reverse recovery time t_{rr}
- Small terminal capacitance, Ct

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit |
|---|------------------|-------------|------|
| Reverse voltage (DC) | V _R | 80 | V |
| Peak reverse voltage | V _{RM} | 80 | V |
| Average forward current*1 | I_F | 100 | mA |
| Peak forward current*1 | I_{FM} | 225 | mA |
| Non-repetitive peak forward surge current*1,2 | I _{FSM} | 500 | mA |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

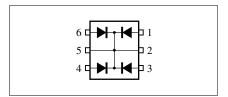


*2: t = 1 s



Marking Symbol: M2C

Internal Connection

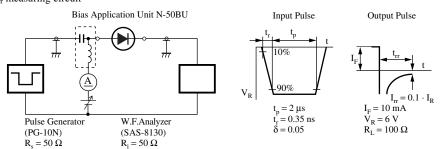


■ Electrical Characteristics $T_a = 25$ °C

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|------------------------|-----------------|--|-----|-----|-----|------|
| Reverse current (DC) | I_R | $V_R = 75 \text{ V}$ | | | 100 | nA |
| Forward voltage (DC) | V _F | $I_F = 100 \text{ mA}$ | | | 1.2 | V |
| Reverse voltage (DC) | V _R | $I_R = 100 \mu A$ | 80 | | | V |
| Terminal capacitance | C _t | $V_R = 0 V, f = 1 MHz$ | | | 2 | pF |
| Reverse recovery time* | t _{rr} | $I_F = 10 \text{ mA}, V_R = 6 \text{ V}$ | | | 3 | ns |
| | | $I_{rr} = 0.1 \cdot I_{R}, R_{L} = 100 \Omega$ | | | | |

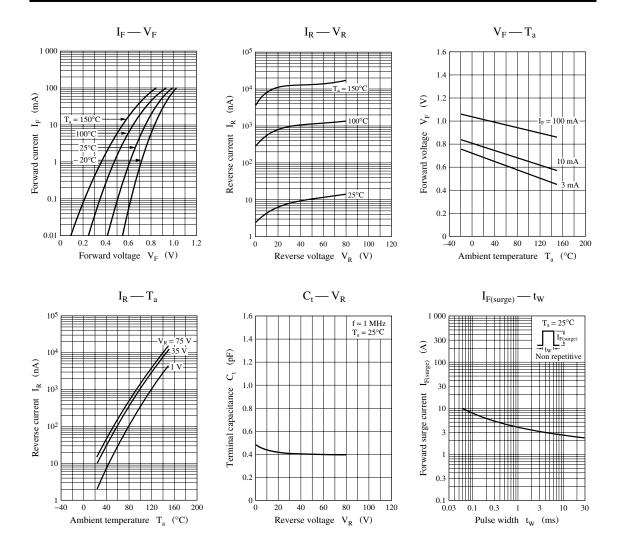
Note) 1. Rated input/output frequency: 100 MHz

2. *: t_{rr} measuring circuit



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

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