MA3S781F

Silicon epitaxial planar type

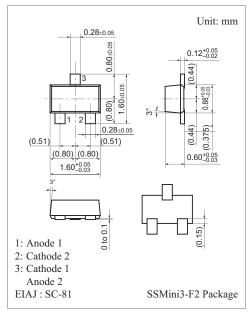
For high speed switching circuits

■ Features

- Optimum for high-density mounting
- ullet Short reverse recovery time t_{rrr} , optimum for high-frequency rectification

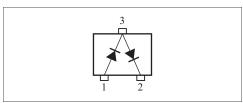
■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | | Symbol | Rating | Unit | |
|------------------------------|-------------------|--------------------|-------------|------|--|
| Reverse voltage | V _R 30 | | V | | |
| Maximum peak reverse voltage | | V _{RM} 30 | | V | |
| Forward current | Single | , | 30 | mA | |
| | Series | $ I_{\rm F}$ | 20 | | |
| Peak forward current | Single | т | 150 | mA | |
| | Series | I _{FM} | 110 | | |
| Junction temperature | | T _j 125 | | °C | |
| Storage temperature | | T _{stg} | -55 to +125 | °C | |



Marking Symbol: M1U

Internal Connection

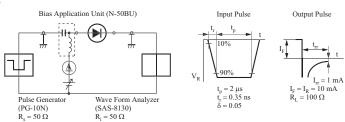


■ Electrical Characteristics $T_a = 25$ °C±3°C

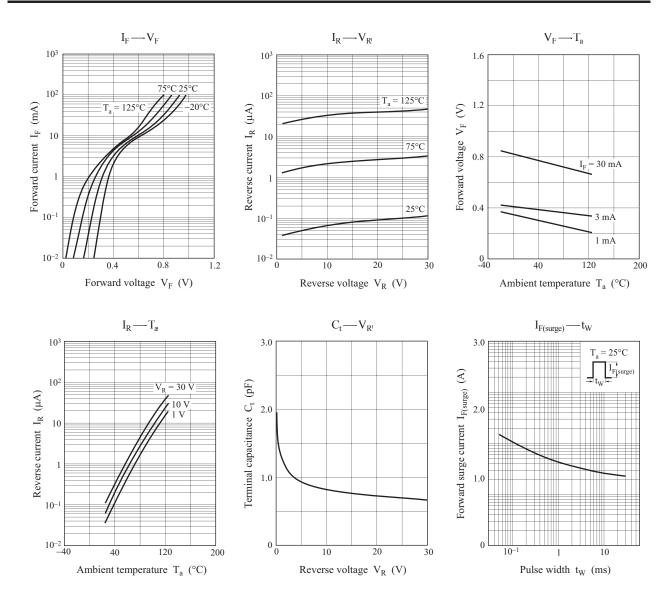
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|-------------------------|-----------------|---|-----|-----|-----|------|
| Forward voltage | V_{Fl} | $I_F = 1 \text{ mA}$ | | | 0.4 | V |
| | V_{F2} | $I_F = 30 \text{ mA}$ | | | 1.0 | |
| Reverse current | I_R | $V_{Rl} = 30 \text{ V}$ | | | 300 | nA |
| Terminal capacitance | C_{t} | $V_{Rl} = 1 \text{ V, } f = 1 \text{ MHz}$ | | 1.5 | | pF |
| Reverse recovery time * | t _{rr} | $I_F = I_{Rl} = 10 \text{ mA}, I_{rr} = 1 \text{ mA}$ $R_{Ll} = 100 \Omega$ | | 1.0 | | ns |
| Detection efficiency | η | $V_{IN^1} = 3 V_{(peak)}$, f = 30 MHz $R_{LI} = 3.9 \text{ k}\Omega$, $C_{LI} = 10 \text{ pF}$ | | 65 | | % |

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

- 2. Absolute frequency of input and output is 2000 MHz
- 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. *: t_{rr} measurement circuit



MA3S781F Panasonic



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- Any applications other than the standard applications intended.

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