

MA3S795E (MA795WK)

Silicon epitaxial planar type

For switching

■ Features

- High-density mounting is possible
- Forward voltage V_F , optimum for low voltage rectification: $V_F < 0.3$ V
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr}

■ Package

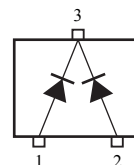
- Code SSMINI3-F2
- Pin Name
 - 1: Anode 1
 - 2: Anode 2
 - 3: Cathode

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

| Parameter | Symbol | Rating | Unit |
|------------------------------|-----------|-------------|------------------|
| Reverse voltage | V_R | 30 | V |
| Maximum peak reverse voltage | V_{RM} | 30 | V |
| Forward current | Single | 30 | mA |
| | Double | 20 | |
| Peak forward current | Single | 150 | mA |
| | Double | 110 | |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage time | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

■ Marking Symbol: M3D

■ Internal Connection

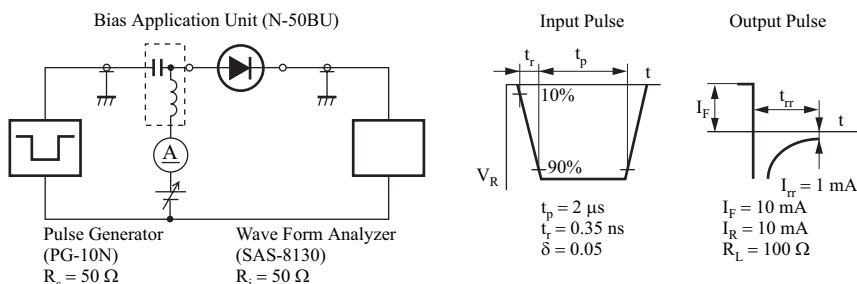


■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

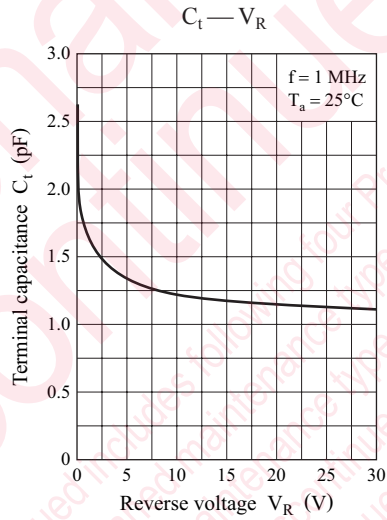
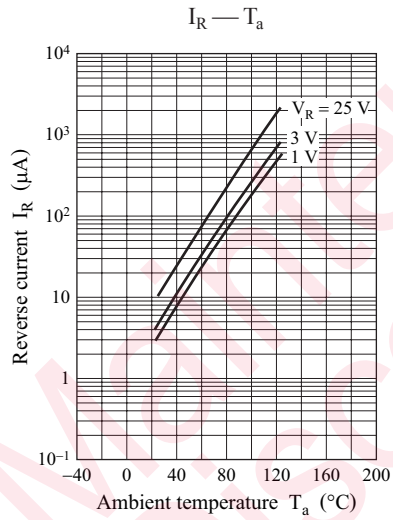
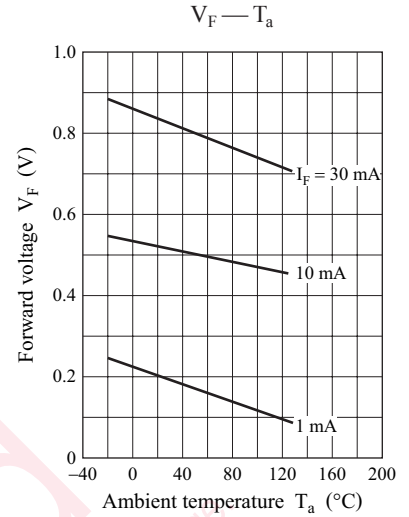
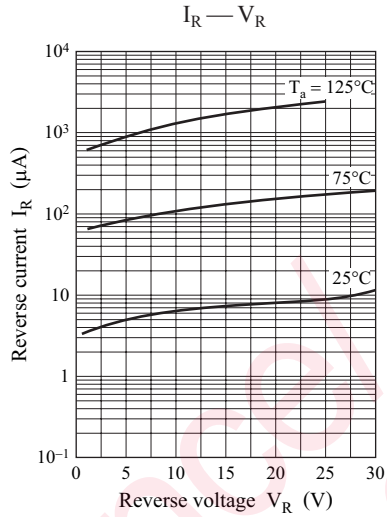
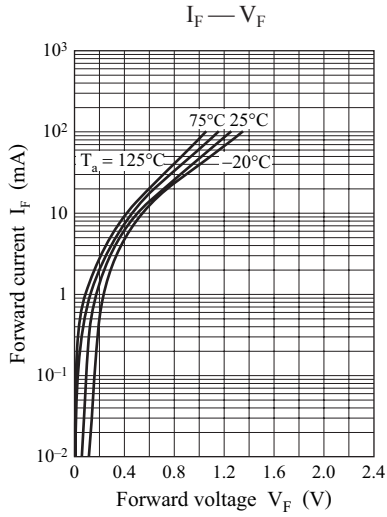
| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|---|-----|-----|-----|---------------|
| Forward voltage | V_{F1} | $I_F = 1$ mA | | | 0.3 | V |
| | V_{F2} | $I_F = 30$ mA | | | 1.0 | |
| Reverse current | I_R | $V_R = 30$ V | | | 30 | μA |
| Terminal capacitance | C_t | $V_R = 1$ V, $f = 1$ MHz | | 1.5 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 10$ mA, $I_{rr} = 1$ mA, $R_L = 100 \Omega$ | | 1.0 | | ns |
| Detection efficiency | η | $V_{IN} = 3$ V _(peak) , $f = 30$ MHz, $R_L = 3.9$ k Ω , $C_L = 10$ pF | | 65 | | % |

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 2 GHz
4. *: t_{rr} measurement circuit

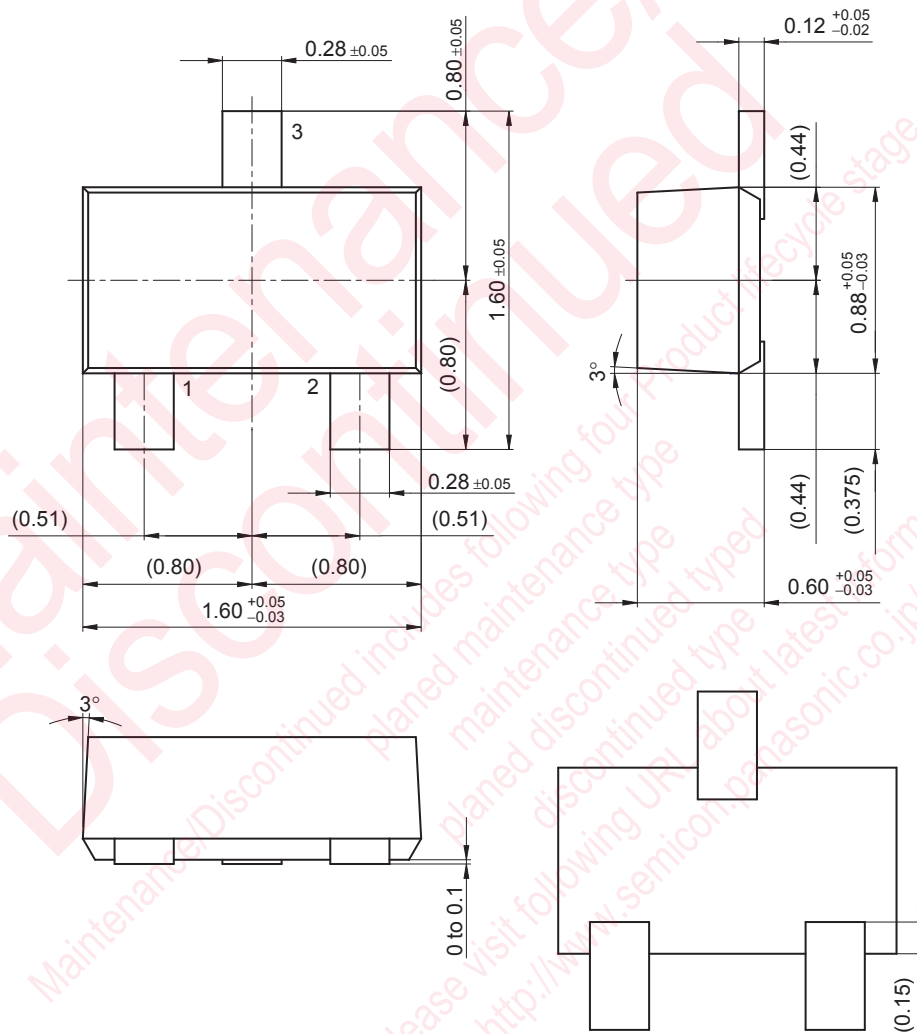


Note) The part number in the parenthesis shows conventional part number.



SSMini3-F2

Unit: mm



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