

MA27D29

Silicon epitaxial planar type

For super high speed switching

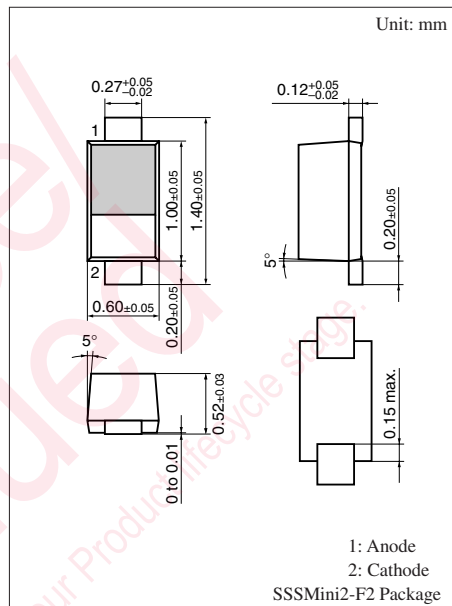
■ Features

- Low forward voltage: $V_F < 0.42 \text{ V}$ (at $I_F = 100 \text{ mA}$)
- Optimum for high frequency rectification because of its short reverse recovery time t_{rr} .

■ 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 (Average) | $I_{F(AV)}$ | 100 | mA |
| Peak forward current | I_{FM} | 200 | mA |
| Non-repetitive peak forward surge current * | I_{FSM} | 1 | 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)



Marking Symbol: 8M

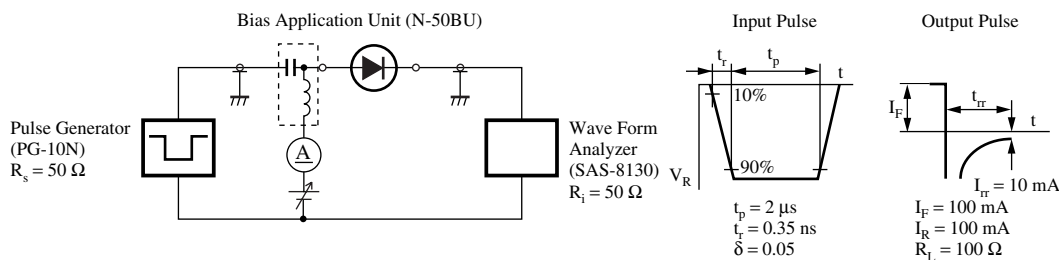
1: Anode
2: Cathode
SSSMini2-F2 Package

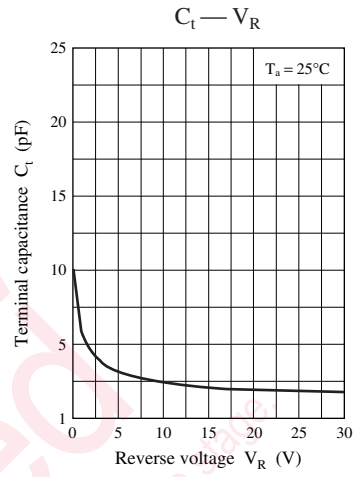
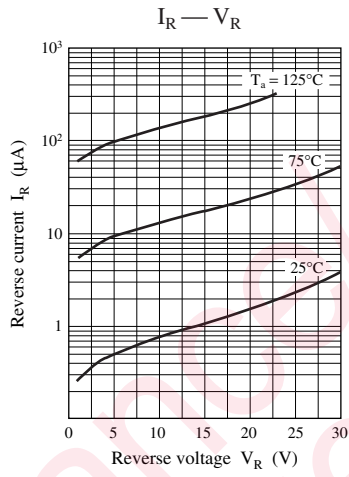
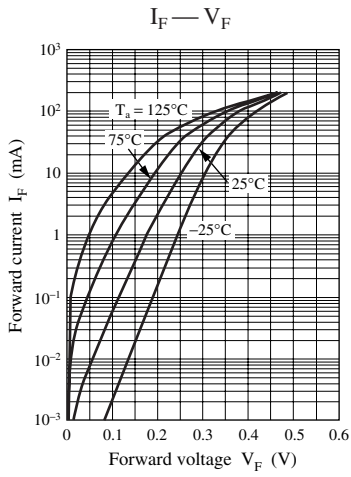
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------------|----------|--|-----|------|------|---------------|
| Forward voltage | V_{F1} | $I_F = 10 \text{ mA}$ | | 0.25 | 0.29 | V |
| | V_{F2} | $I_F = 100 \text{ mA}$ | | 0.39 | 0.42 | V |
| Reverse current | I_{R1} | $V_R = 10 \text{ V}$ | | | 25 | μA |
| | I_{R2} | $V_R = 30 \text{ V}$ | | | 120 | μA |
| Terminal capacitance | C_t | $V_R = 0 \text{ V}, f = 1 \text{ MHz}$ | | 11 | | pF |
| Reverse recovery time * | t_{rr} | $I_F = I_R = 100 \text{ mA}$ $I_{rr} = 10 \text{ mA}, R_L = 100 \Omega$ | | 1 | | 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





Maintenance/Discontinued

includes following four Product lifecycle stages:

- planned maintenance type
- maintenance type
- planned discontinued type
- discontinued type

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standard applications or general electronic equipment (such as office
and household appliances).

ng applications:

biles, traffic control equipment, combustion equipment, life support
reliability are required, or if the failure or malfunction of the prod-

ck are subject to change without notice for modification and/or im-
use of the products, therefore, ask for the most up-to-date Product
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bsolute maximum rating and the guaranteed operating conditions
(.). Especially, please be careful not to exceed the range of absolute
er-off and mode-switching. Otherwise, we will not be liable for any

take into the consideration of incidence of break down and failure
n the systems such as redundant design, arresting the spread of fire
al injury, fire, social damages, for example, by using the products.

own and characteristics change due to external factors (ESD, EOS,
mounting or at customer's process. When using products for which
shelf life and the elapsed time since first opening the packages.

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