

## RF101A2S

## Diodes

## Fast recovery diode

## RF101A2S

## ●Applications

General rectification

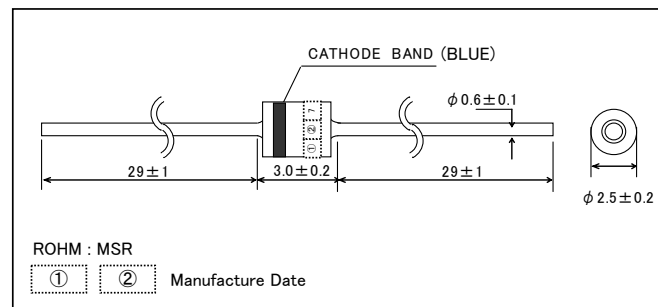
## ●Features

- 1) Cylindrical mold type. (MSR)
- 2) Ultra Low  $V_F$ .
- 3) Ultra high switching.
- 4) Low switching loss.
- 5) High ESD.

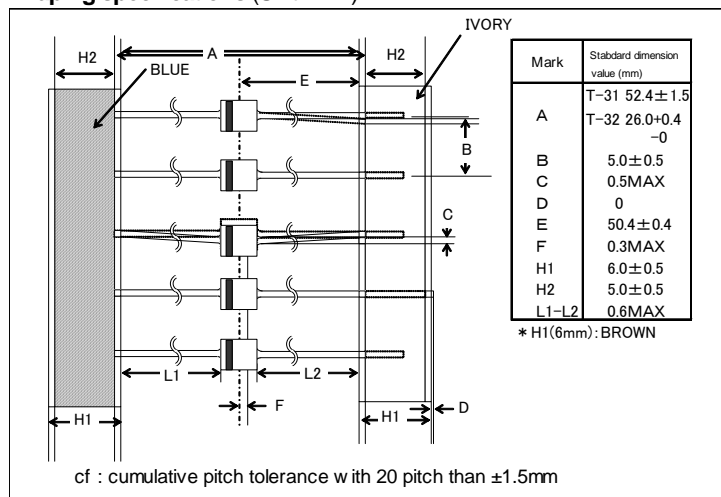
## ●Construction

Silicon epitaxial planar

## ●Dimensions (Unit : mm)



## ●Taping specifications (Unit : mm)

●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

| Parameter                              | Symbol    | Limits      | Unit             |
|--|-----------|-------------|------------------|
| Reverse voltage (repetitive)           | $V_{RM}$  | 200         | V                |
| Reverse voltage (DC)                   | $V_R$     | 200         | V                |
| Average rectified forward current(*1)  | $I_o$     | 1           | A                |
| Forward current surge peak (60Hz·1cyc) | $I_{FSM}$ | 20          | A                |
| Junction temperature                   | $T_j$     | 150         | $^\circ\text{C}$ |
| Storage temperature                    | $T_{stg}$ | -55 to +150 | $^\circ\text{C}$ |

(\*1) Mounting on epoxy board. 180° Half sine wave

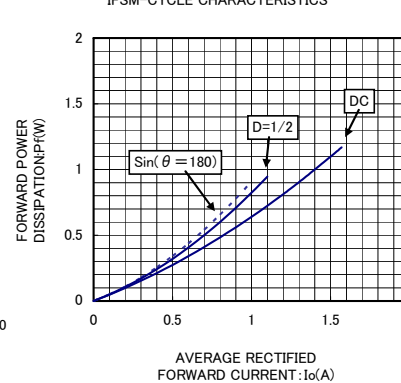
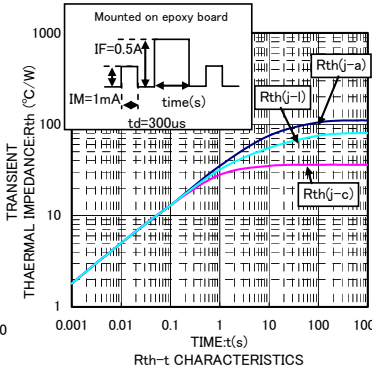
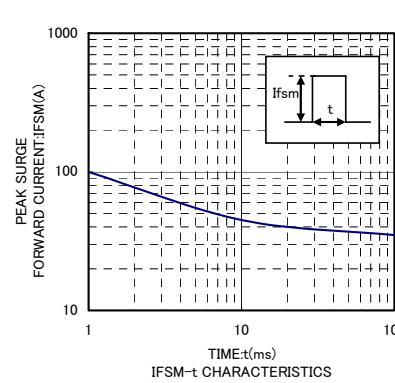
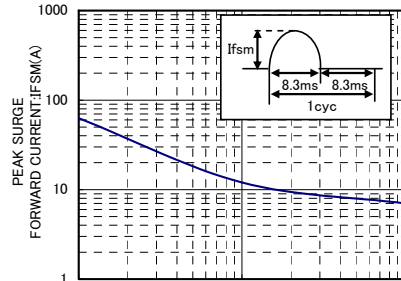
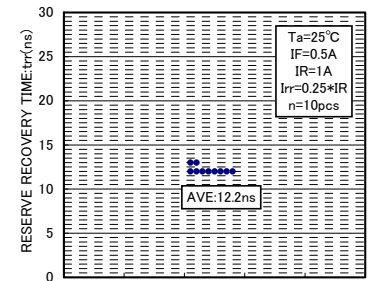
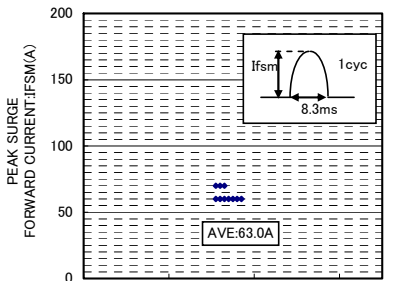
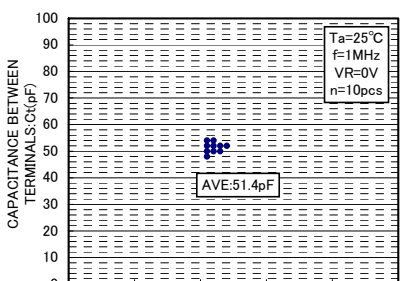
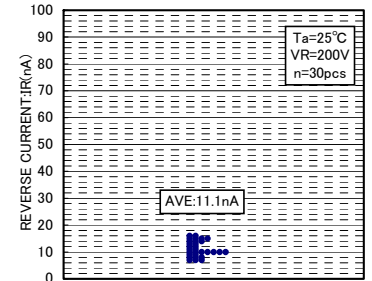
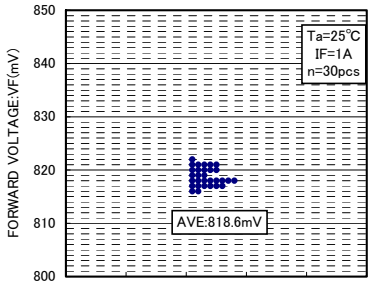
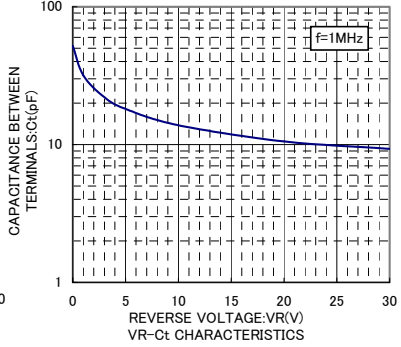
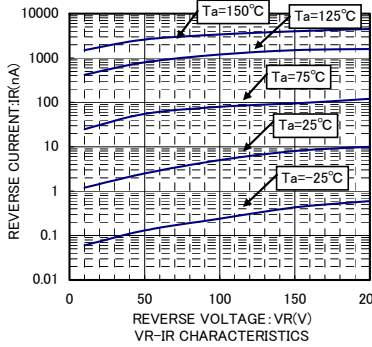
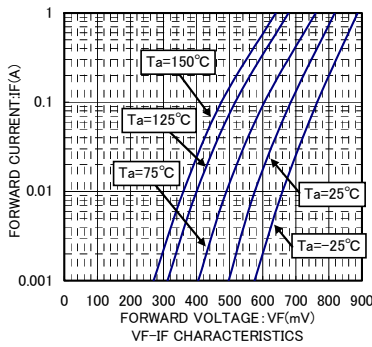
●Electrical characteristic ( $T_a=25^\circ\text{C}$ )

| Parameter             | Symbol   | Min. | Typ.  | Max. | Unit          | Conditions  |
|-----------------------|----------|------|-------|------|---------------|---|
| Forward voltage       | $V_F$    | -    | 0.815 | 0.87 | V             | $I_F=1.0\text{A}$                                       |
| Reverse current       | $I_R$    | -    | 0.01  | 10   | $\mu\text{A}$ | $V_R=200\text{V}$                                       |
| Reverse recovery time | $t_{rr}$ | -    | 12    | 25   | ns            | $I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \cdot I_R$ |

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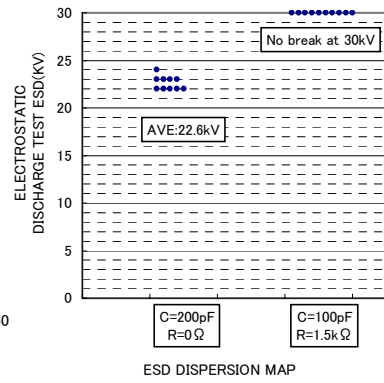
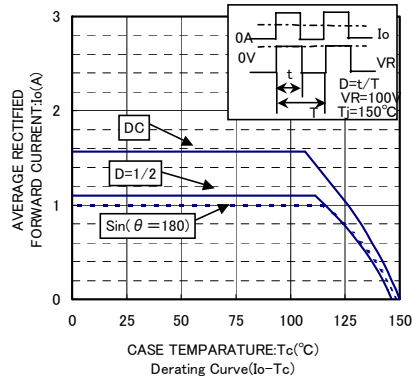
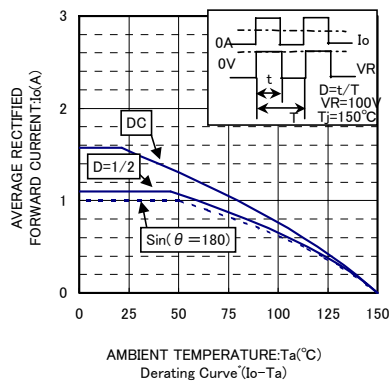
## Diodes

### Electrical characteristic curves



# RF101A2S

## Diodes



## Appendix

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