

### ●Serie

Standard Fast Recovery

### ●Application

General rectification

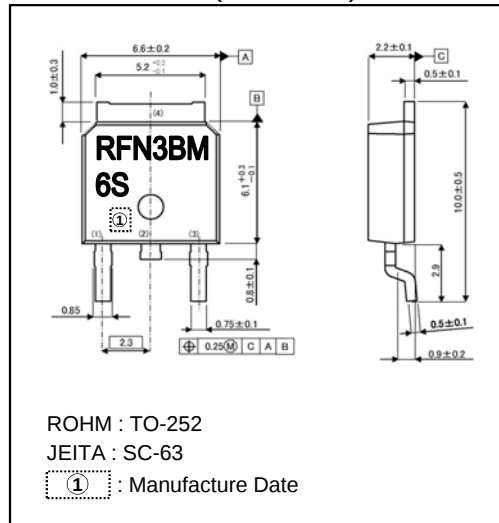
### ●Features

- 1) Low switching loss
- 2) Low forward voltage

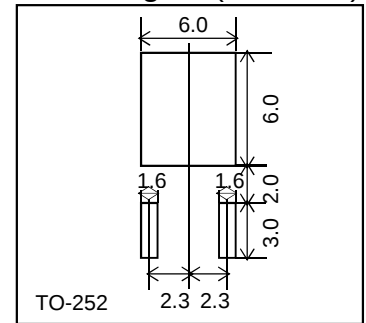
### ●Construction

Silicon epitaxial planar type

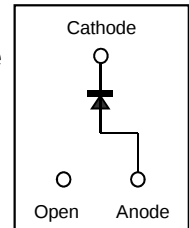
### ●Dimensions (Unit : mm)



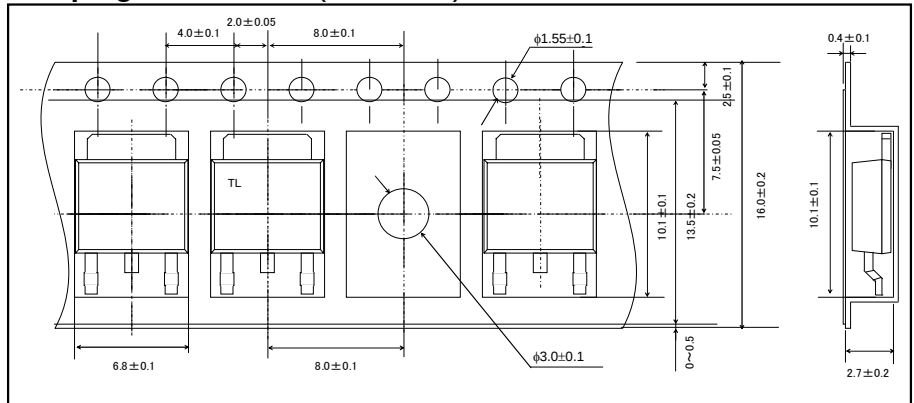
### ●Land Size Figure (Unit : mm)



### ●Structure



### ●Taping Dimensions (Unit : mm)



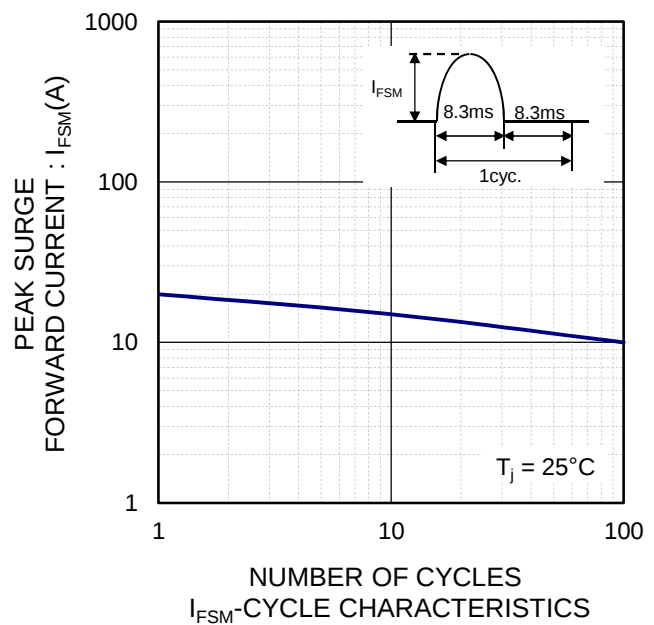
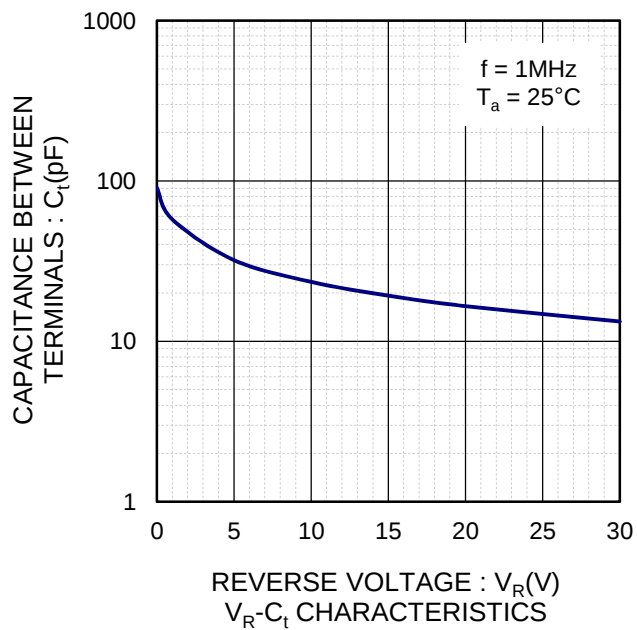
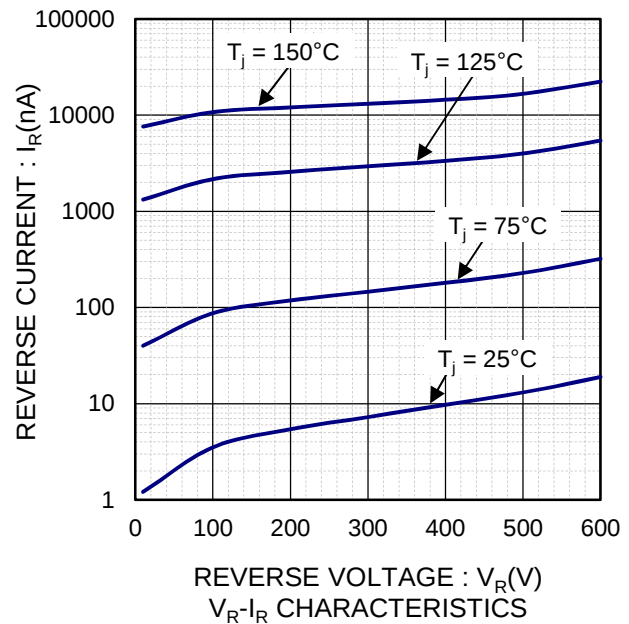
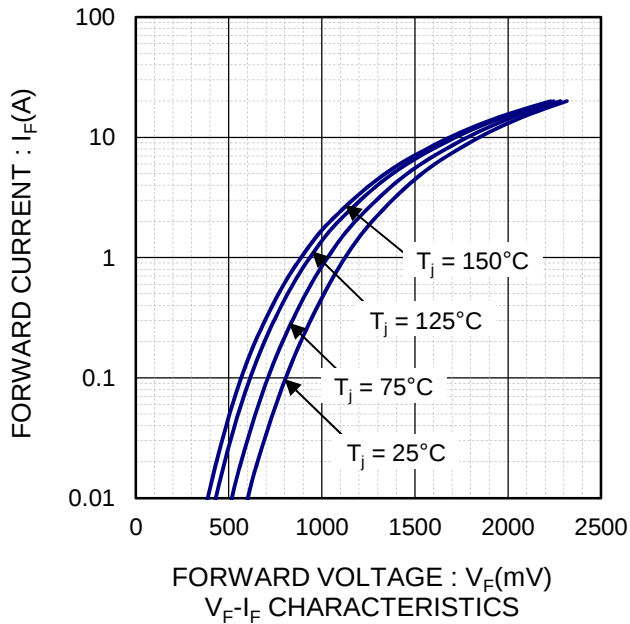
### ●Absolute Maximum Ratings ( $T_c = 25^\circ\text{C}$ )

| Parameter                         | Symbol    | Conditions                                                   | Limits      | Unit             |
|-----------------------------------|-----------|--------------------------------------------------------------|-------------|------------------|
| Repetitive peak reverse voltage   | $V_{RM}$  | Duty $\leq 0.5$                                              | 600         | V                |
| Reverse voltage                   | $V_R$     | Direct voltage                                               | 600         | V                |
| Average rectified forward current | $I_o$     | 60Hz half sin wave , Resistive load $T_c=112^\circ\text{C}$  | 3           | A                |
| Forward current surge peak        | $I_{FSM}$ | 60Hz half sin wave ,Non-repetitive at $T_j=25^\circ\text{C}$ | 20          | A                |
| Operating junction temperature    | $T_j$     | -                                                            | 150         | $^\circ\text{C}$ |
| Storage temperature               | $T_{stg}$ | -                                                            | -55 to +150 | $^\circ\text{C}$ |

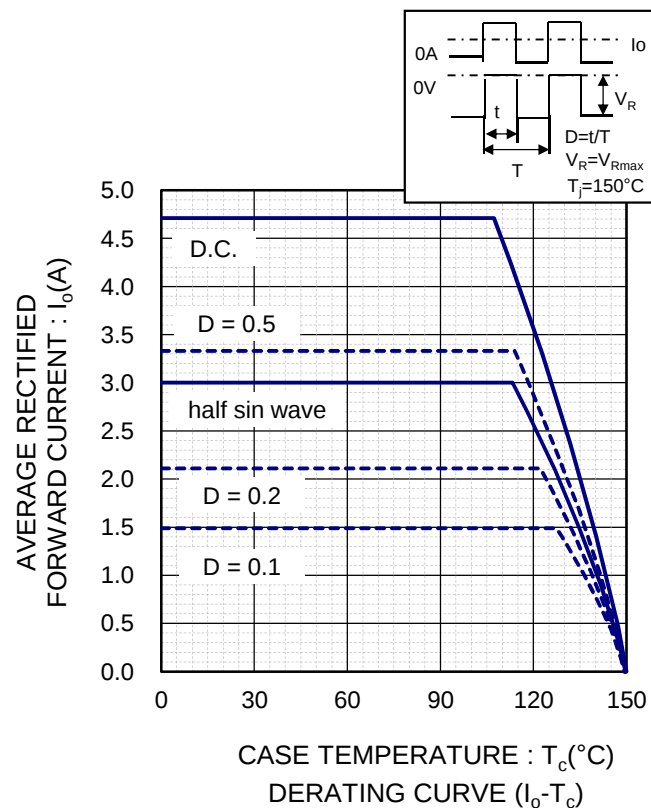
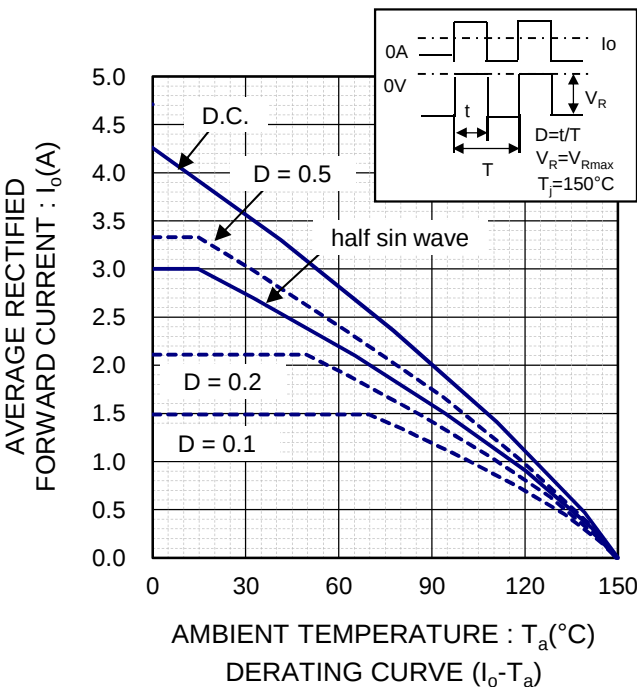
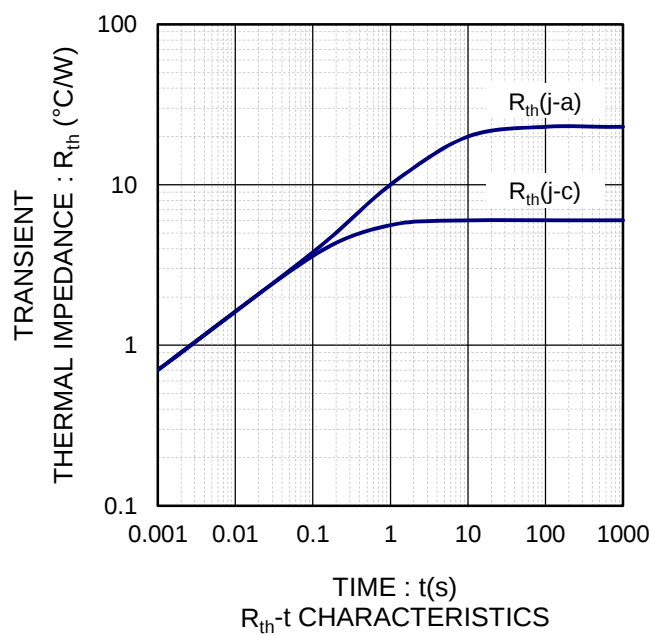
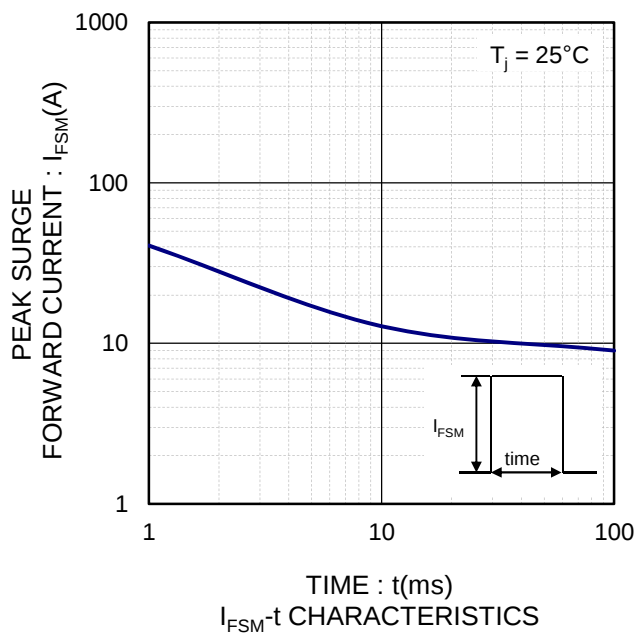
### ●Electrical Characteristics ( $T_j = 25^\circ\text{C}$ )

| Parameter             | Symbol        | Conditions                                                     | Min. | Typ. | Max. | Unit                        |
|-----------------------|---------------|----------------------------------------------------------------|------|------|------|-----------------------------|
| Forward voltage       | $V_F$         | $I_F=3\text{A}$                                                | -    | 1.35 | 1.55 | V                           |
| Reverse current       | $I_R$         | $V_R=600\text{V}$                                              | -    | 0.05 | 10   | $\mu\text{A}$               |
| Reverse recovery time | $t_{rr}$      | $I_F=0.5\text{A}$ , $I_R=1\text{A}$ , $I_{rr}=0.25 \times I_R$ | -    | 18   | 30   | ns                          |
| Thermal resistance    | $R_{th(j-c)}$ | Junction to case                                               | -    | -    | 6.0  | $^\circ\text{C} / \text{W}$ |

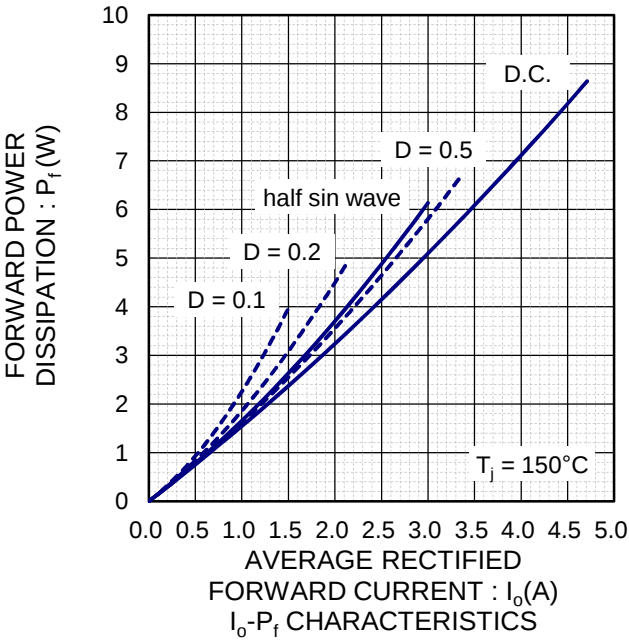
# ●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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