

### ●Serie

Standard Fast Recovery

### ●Application

General rectification

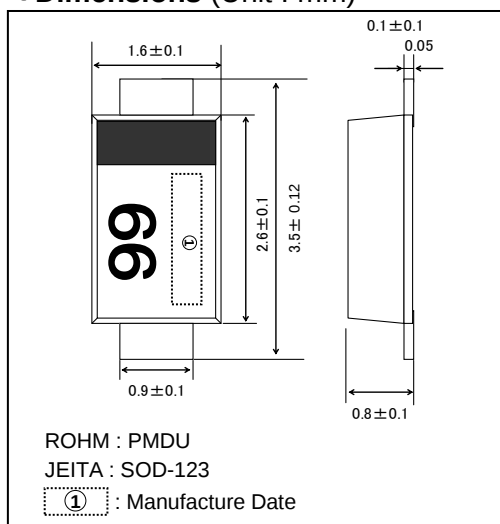
### ●Features

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

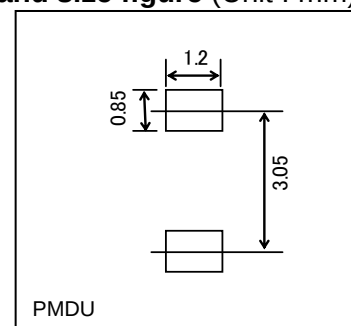
### ●Construction

Silicon epitaxial planar type

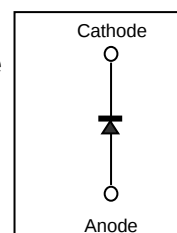
### ●Dimensions (Unit : mm)



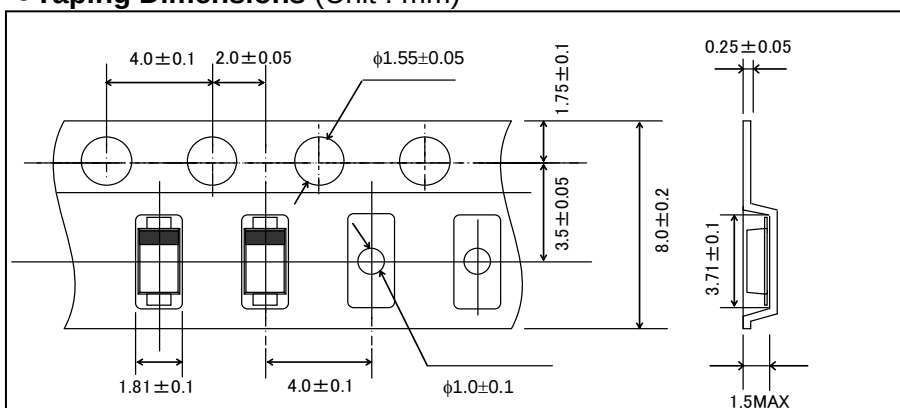
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping Dimensions (Unit : mm)



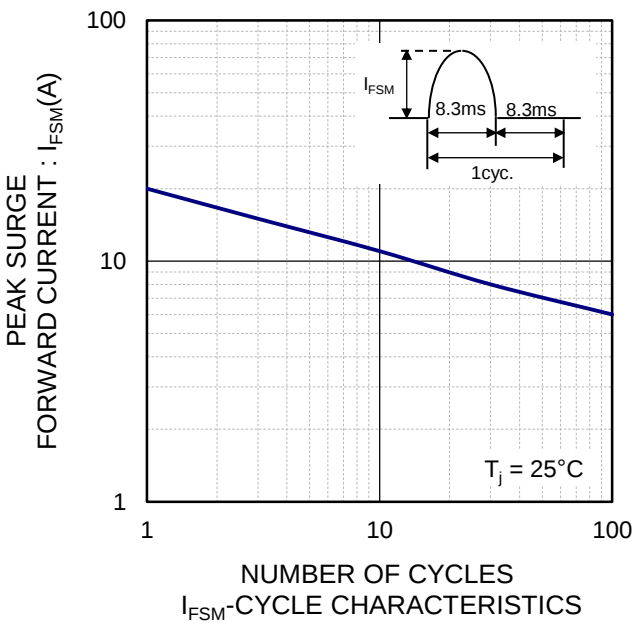
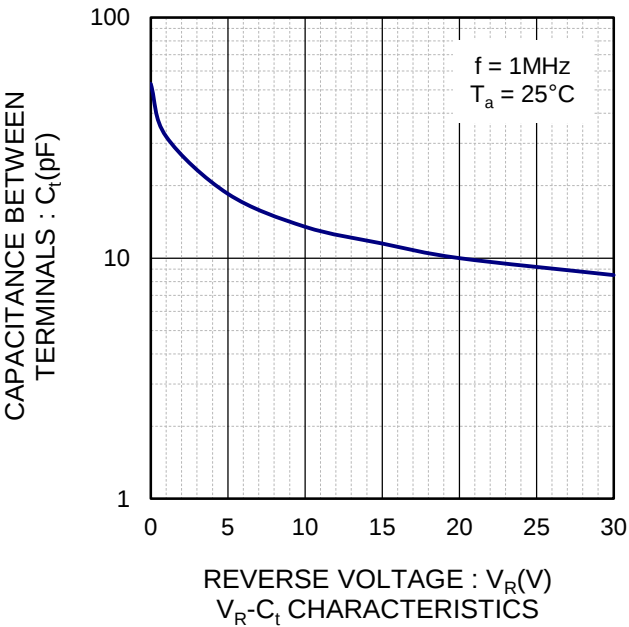
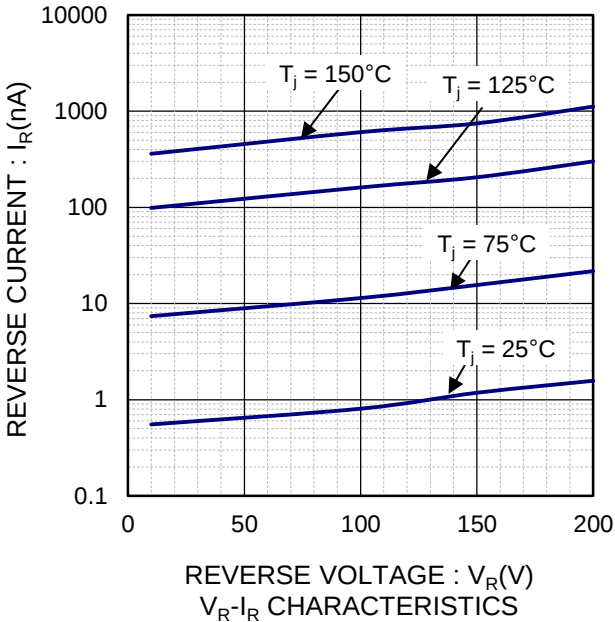
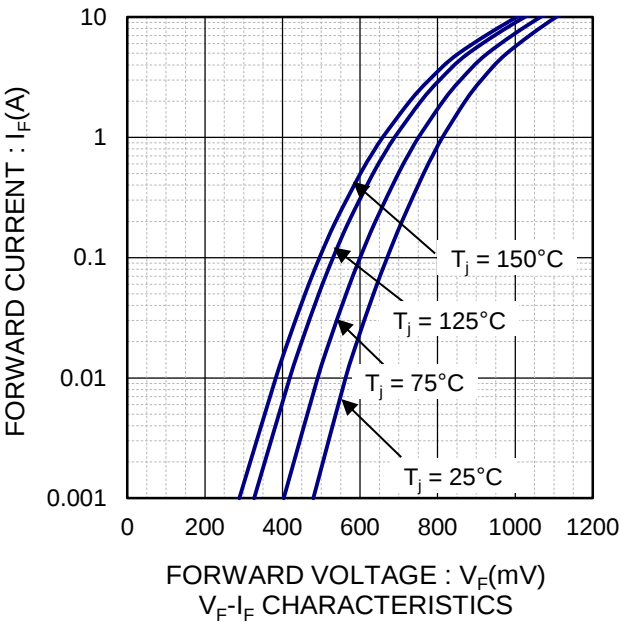
### ●Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

| Parameter                            | Symbol    | Conditions                                                      | Limits                          | Unit             |
|--------------------------------------|-----------|-----------------------------------------------------------------|---------------------------------|------------------|
| Repetitive peak reverse voltage      | $V_{RM}$  | Duty $\leq 0.5$                                                 | 200                             | V                |
| Reverse voltage                      | $V_R$     | Direct reverse voltage                                          | 200                             | V                |
| Average rectified forward current    | $I_o$     | On glass epoxy substrate<br>60Hz half sin wave , Resistive load | $T_a = 45^\circ\text{C}$<br>0.8 | A                |
|                                      |           |                                                                 | $T_j = 130^\circ\text{C}$<br>1  |                  |
| Non-repetitive forward surge current | $I_{FSM}$ | 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                     | $^\circ\text{C}$ |

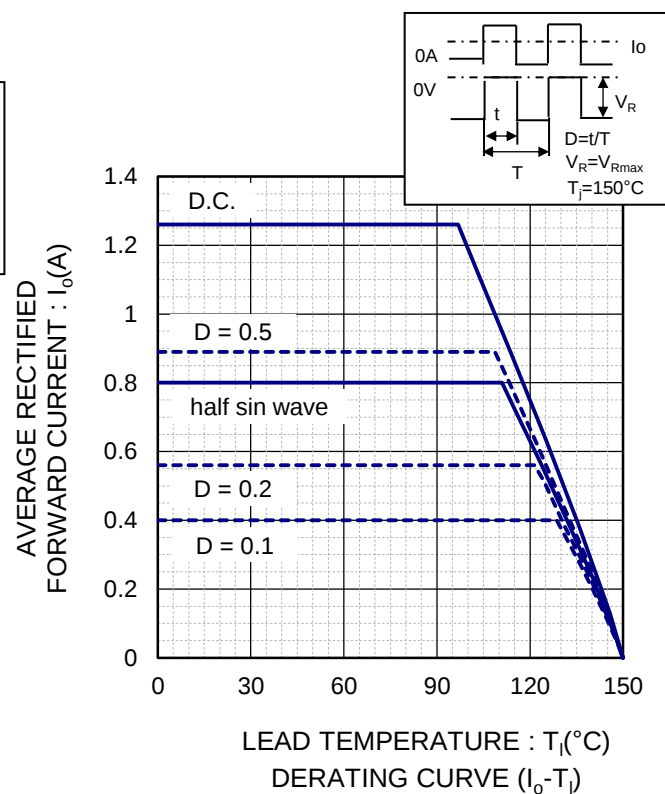
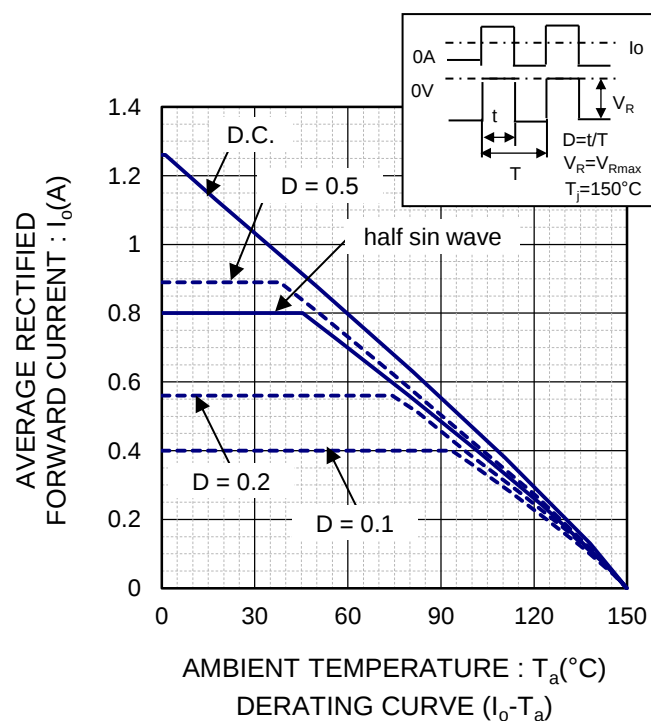
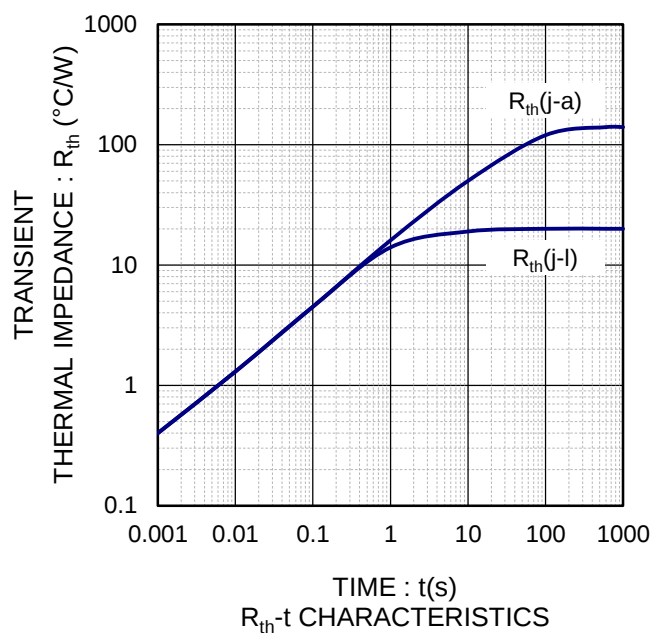
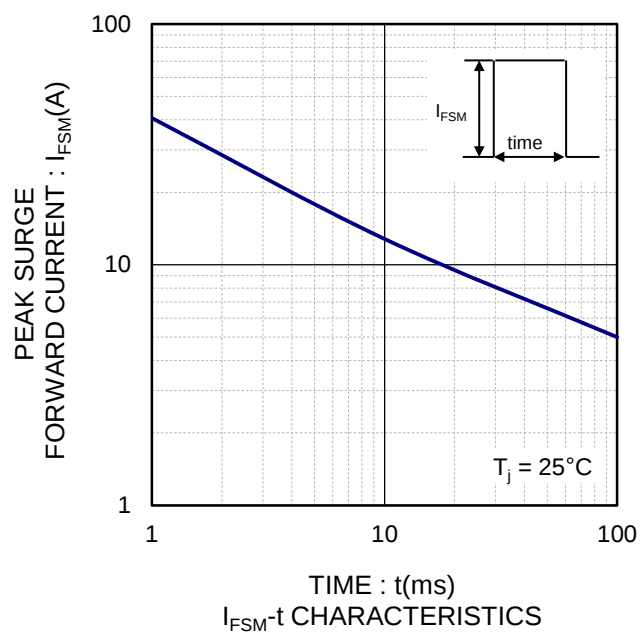
### ●Electrical characteristics ( $T_j = 25^\circ\text{C}$ )

| Parameter             | Symbol        | Conditions                                                           | Min. | Typ. | Max. | Unit                        |
|-----------------------|---------------|----------------------------------------------------------------------|------|------|------|-----------------------------|
| Forward voltage       | $V_F$         | $I_F = 0.8\text{A}$                                                  | 0.75 | 0.81 | 0.95 | V                           |
|                       |               | $I_F = 1\text{A}$                                                    | -    | 0.82 | 0.98 |                             |
| Reverse current       | $I_R$         | $V_R = 200\text{V}$                                                  | -    | 0.01 | 10   | $\mu\text{A}$               |
| Reverse recovery time | $t_{rr}$      | $I_F = 0.5\text{A}$ , $I_R = 1\text{A}$ , $I_{rr} = 0.25 \times I_R$ | -    | 14   | 25   | ns                          |
| Thermal resistance    | $R_{th(j-l)}$ | Junction to lead                                                     | -    | -    | 20   | $^\circ\text{C} / \text{W}$ |

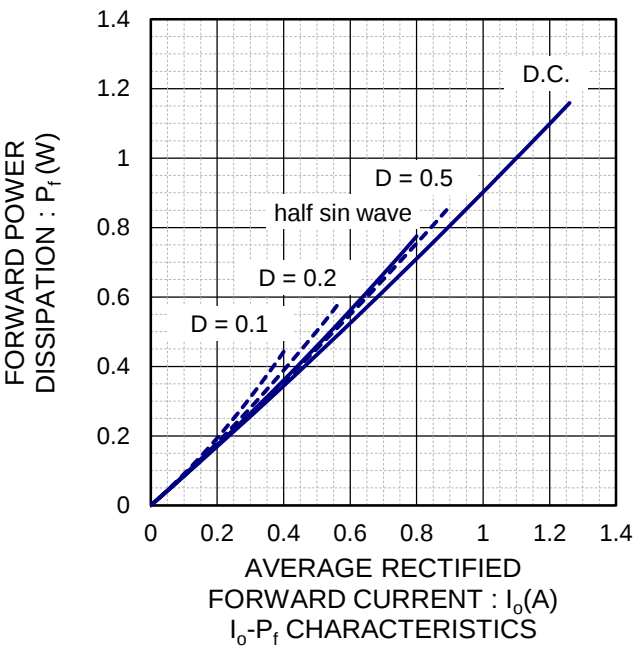
●Electrical characteristic curves



### ●Electrical characteristic curves



●Electrical characteristic curves



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