

AEC-Q101 Qualified

●Series

Standard Fast Recovery

●Application

High frequency rectification

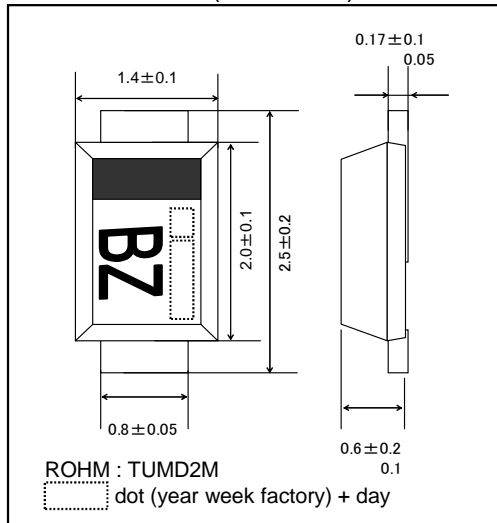
●Features

- 1) Small mold type (TUMD2M)
- 2) High speed switching
- 3) Low forward voltage

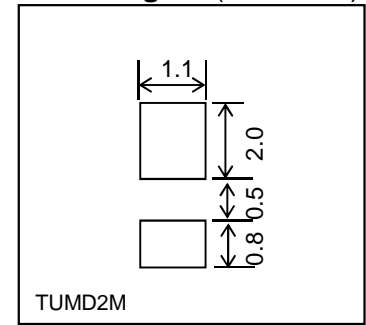
●Construction

Silicon epitaxial planar type

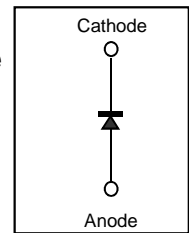
●Dimensions (Unit : mm)



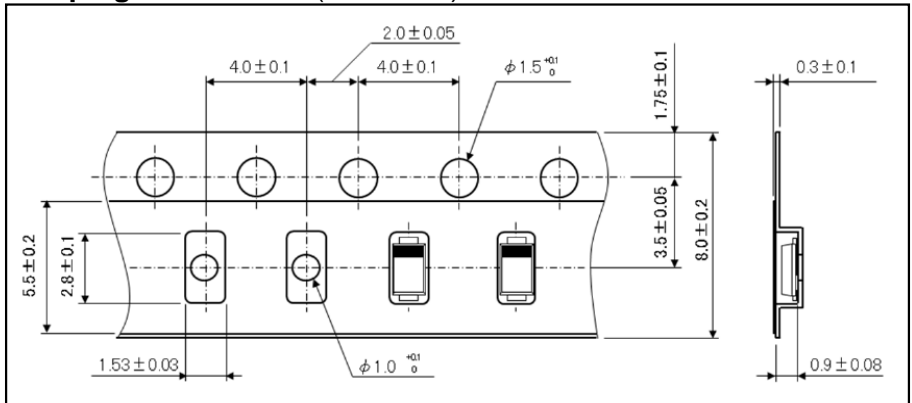
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



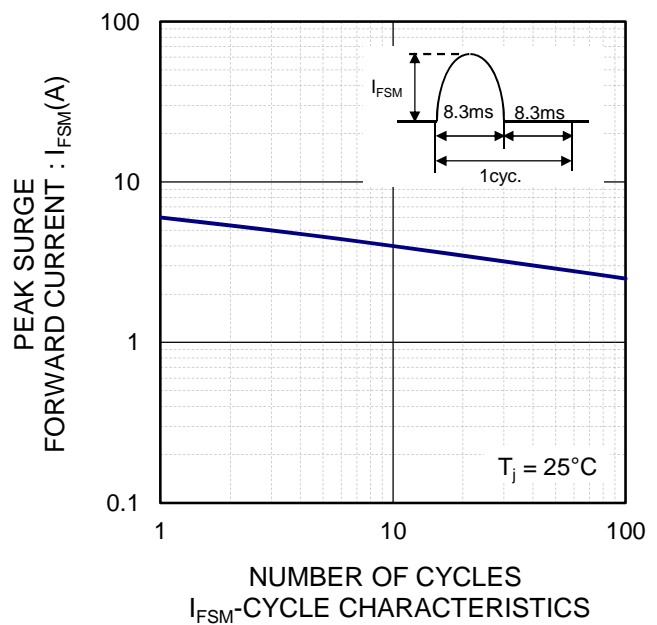
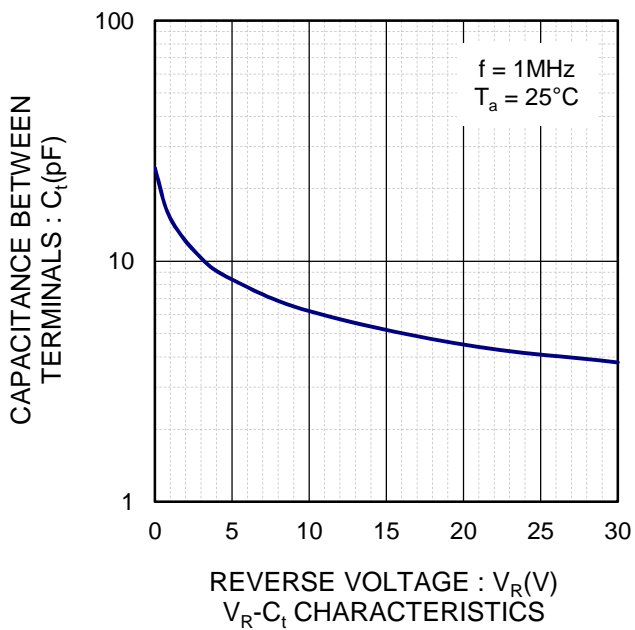
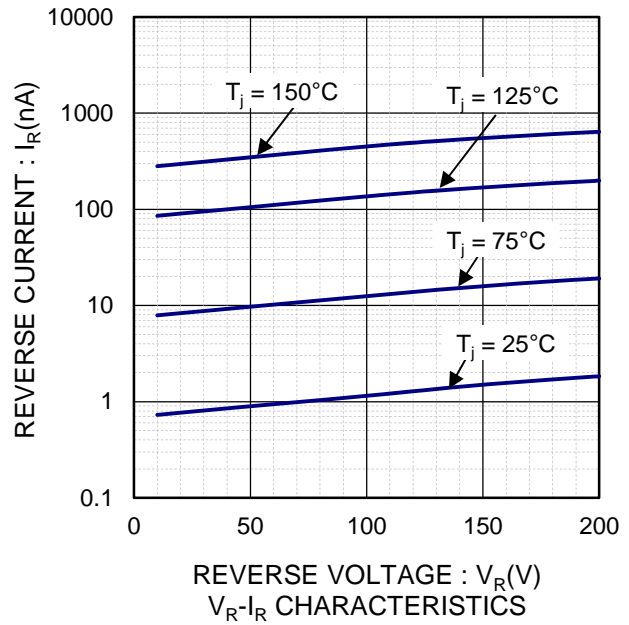
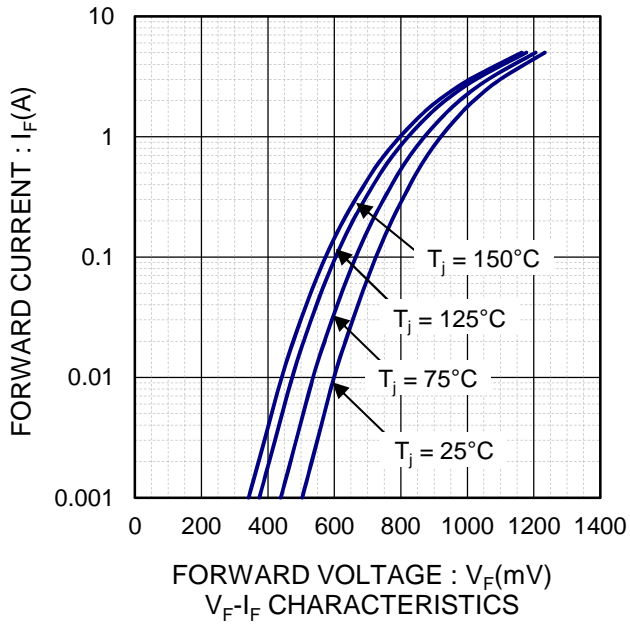
●Absolute maximum ratings (T_a= 25°C)

| Parameter | Symbol | Conditions | Limits | Unit |
|--------------------------------------|------------------|---|-------------|------|
| Repetitive peak reverse voltage | V _{RM} | Duty ≤ 0.5 | 200 | V |
| Reverse voltage | V _R | Direct voltage | 200 | V |
| Average current | I _o | On glass epoxy substrate 60Hz half sin wave , Resistive load | 0.5 | A |
| Non-repetitive forward surge current | I _{FSM} | 60Hz half sin wave ,Non-repetitive at T _j =25°C | 6 | A |
| Operating junction temperature | T _j | - | 150 | °C |
| Storage temperature | T _{stg} | - | -55 to +150 | °C |

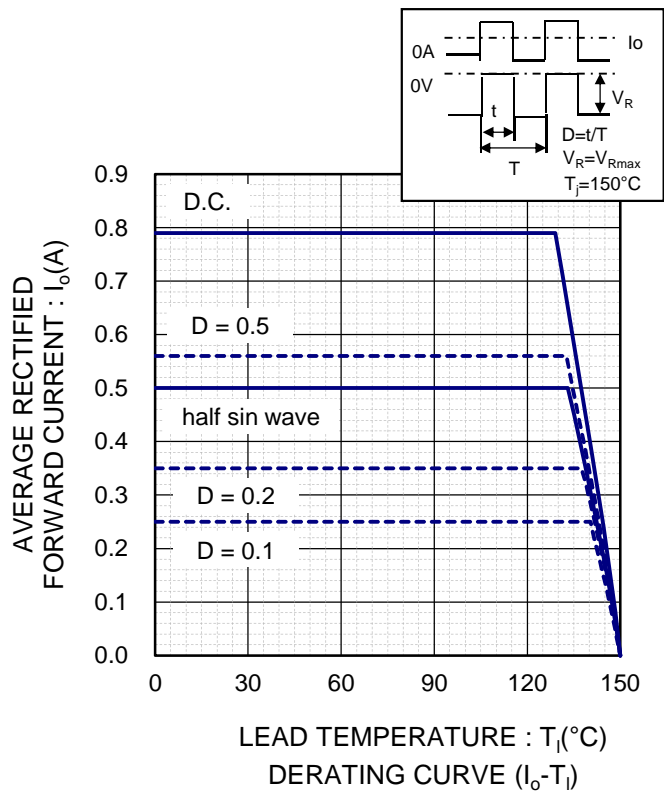
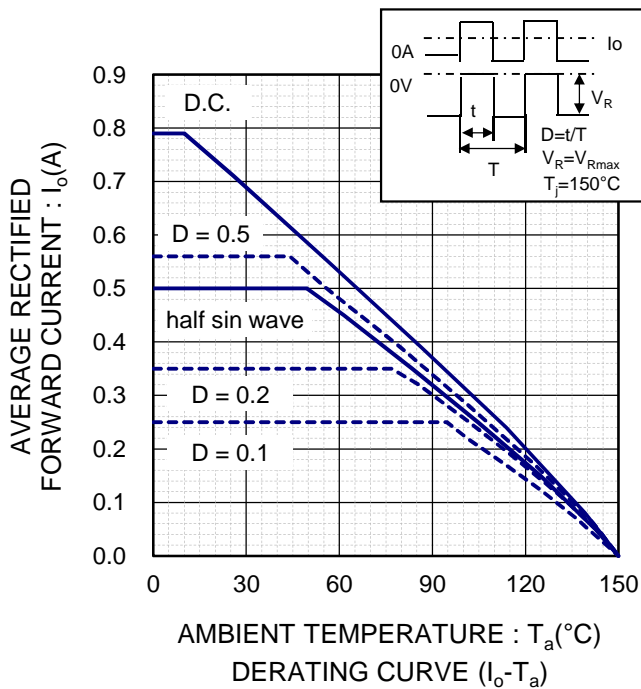
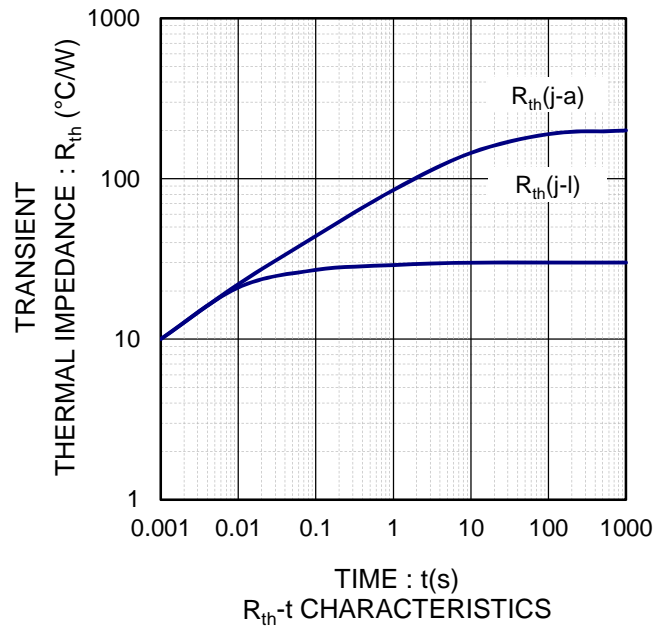
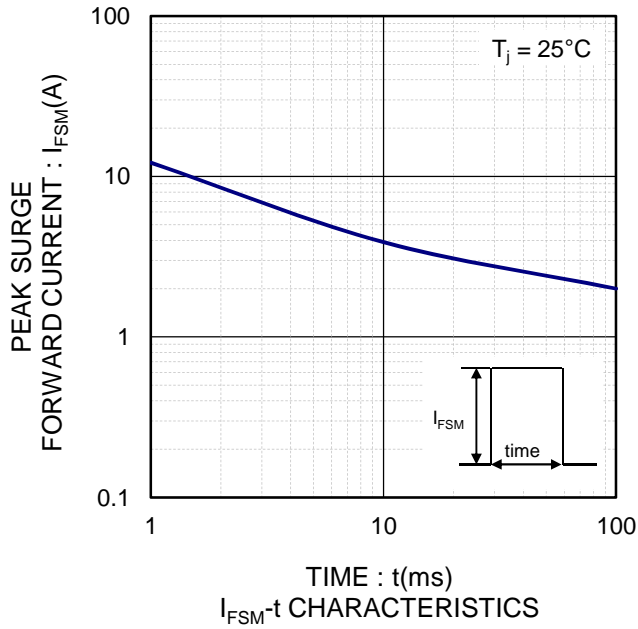
●Electrical characteristics (T_j = 25°C)

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|----------------------|--|------|------|------|--------|
| Forward voltage | V _F | I _F =0.5A | - | 0.85 | 0.98 | V |
| Reverse current | I _R | V _R =200V | - | 0.01 | 10 | μA |
| Reverse recovery time | trr | I _F =0.5A, I _R =1A, I _{rr} =0.25×I _R | - | 11 | 25 | ns |
| Thermal resistance | R _{th(j-l)} | Junction to lead | - | - | 30 | °C / W |

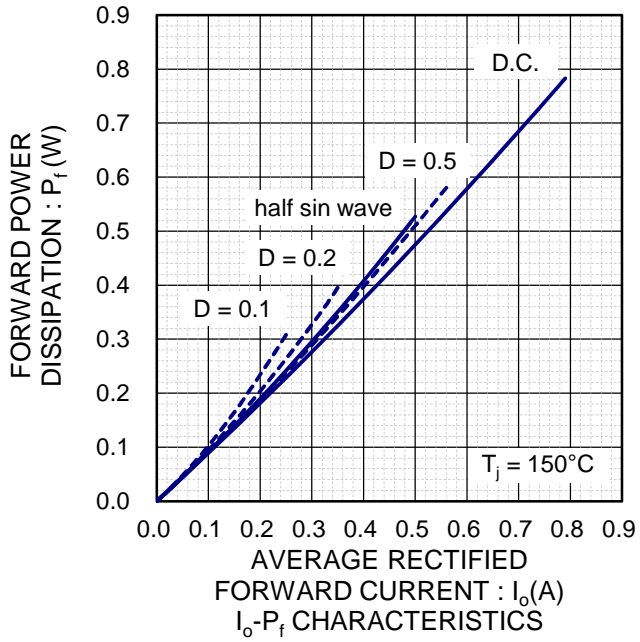
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



Notes

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