

AEC-Q101 Qualified

●Series

Standard Fast Recovery

●Application

High frequency rectification

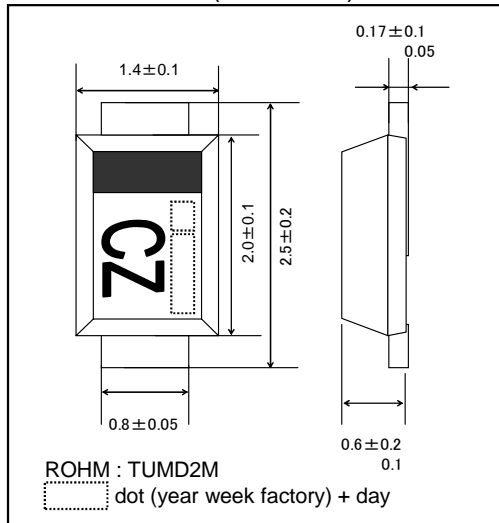
●Features

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

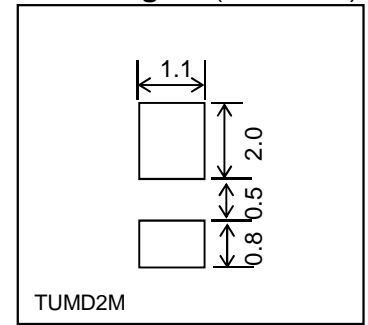
●Construction

Silicon epitaxial planar type

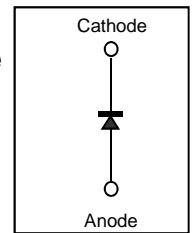
●Dimensions (Unit : mm)



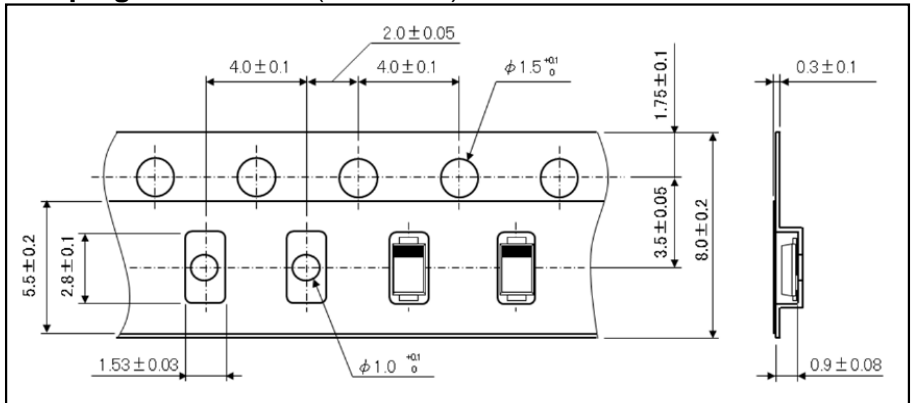
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



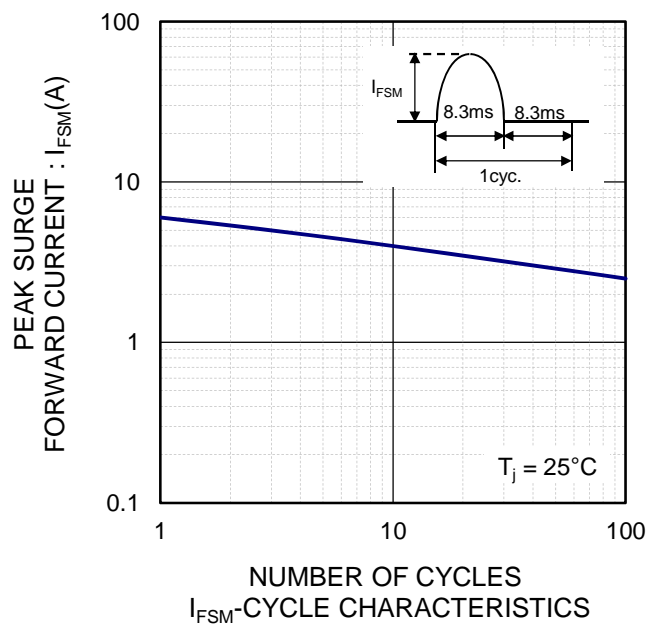
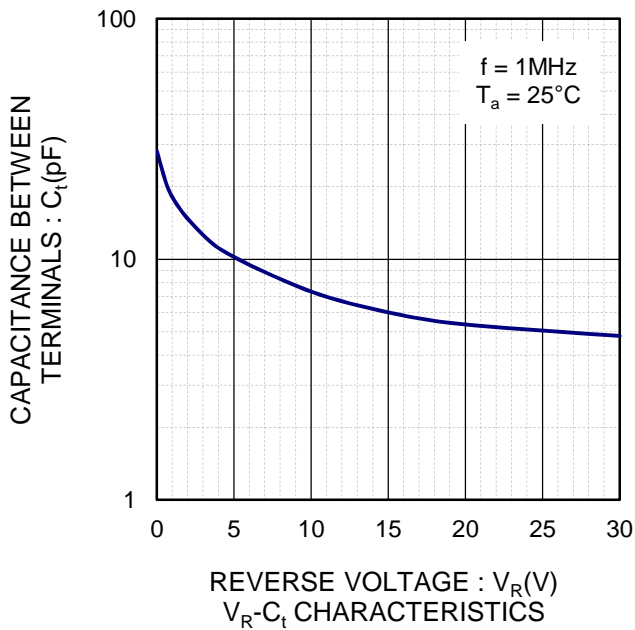
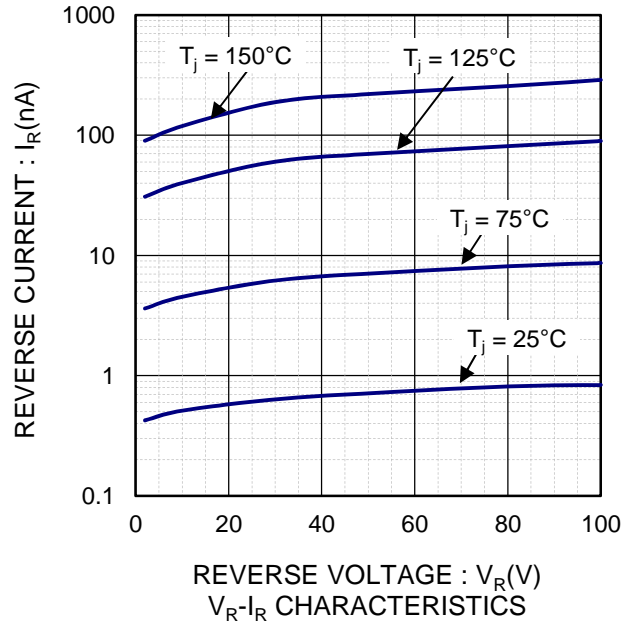
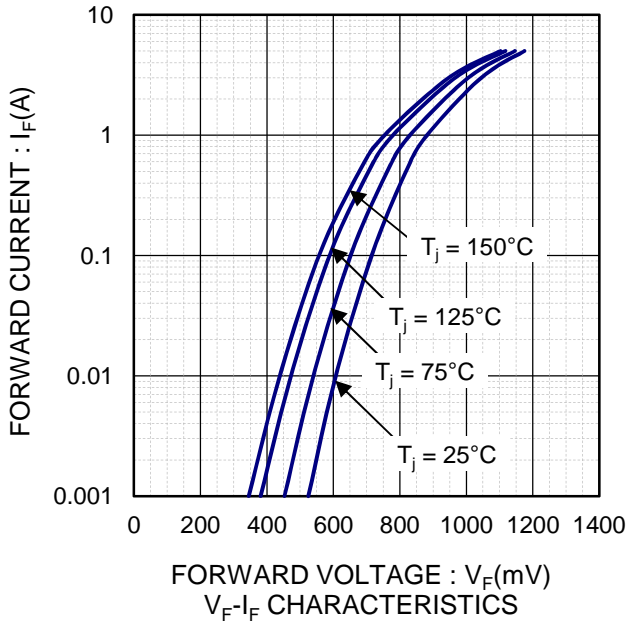
●Absolute maximum ratings (T_a= 25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V _{RM}	Duty ≤ 0.5	100	V
Reverse voltage	V _R	Direct voltage	100	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

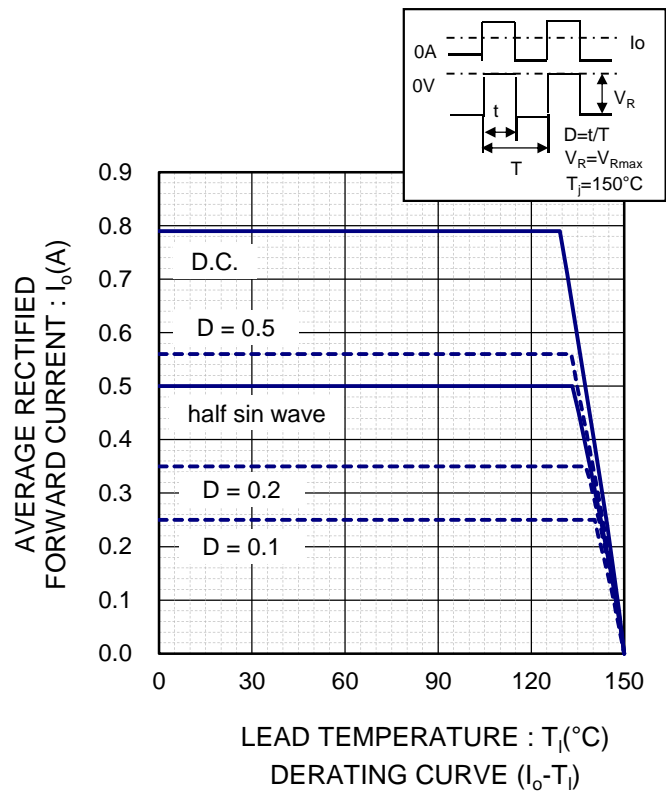
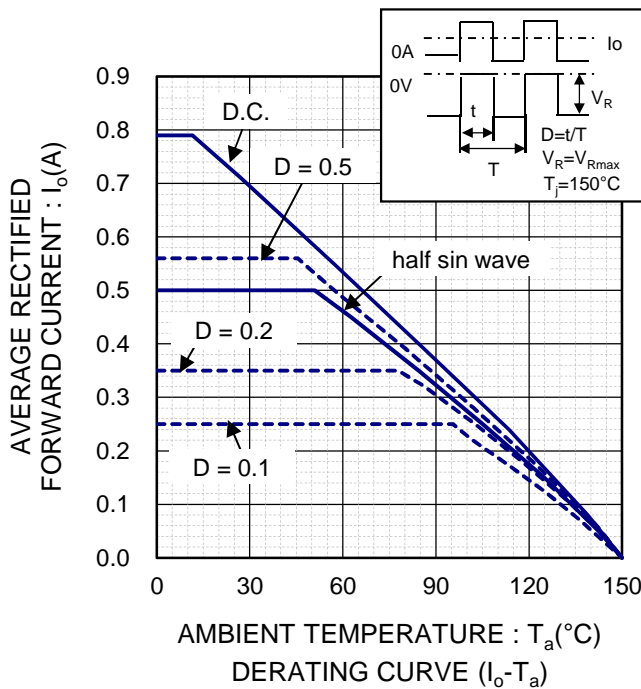
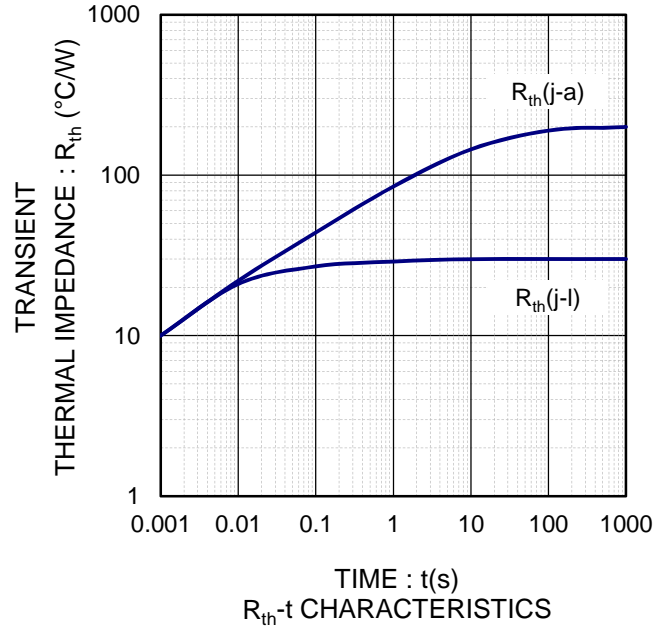
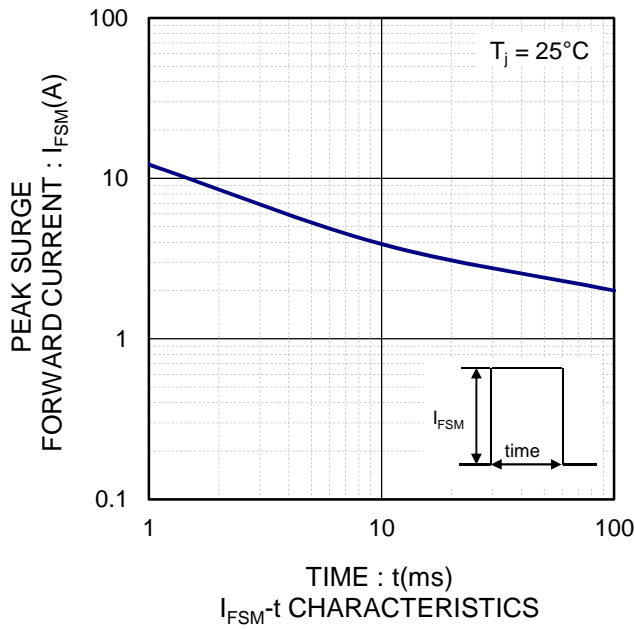
●Electrical characteristics (T_j = 25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =0.5A	-	0.82	0.98	V
Reverse current	I _R	V _R =100V	-	0.01	10	μA
Reverse recovery time	trr	I _F =0.5A, I _R =1A, I _{rr} =0.25×I _R	-	12	25	ns
Thermal resistance	R _{th(j-l)}	Junction to lead	-	-	30	°C / W

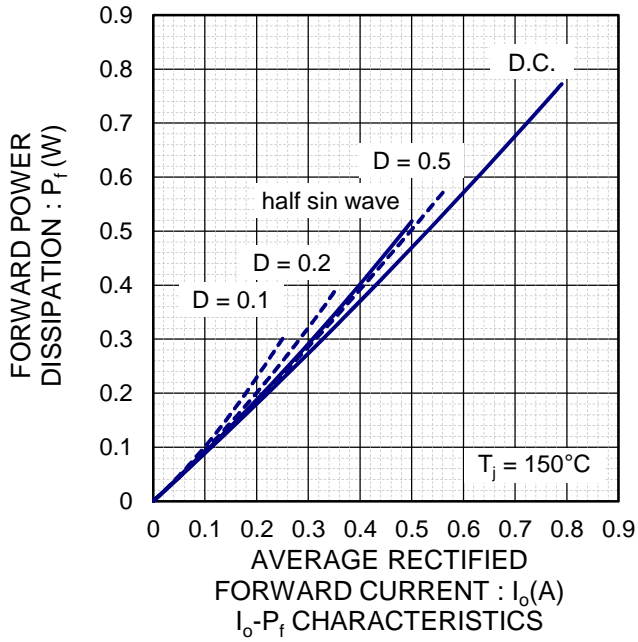
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



Notes

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