

AEC-Q101 Qualified

●Series

Standard Fast Recovery

●Application

High frequency rectification

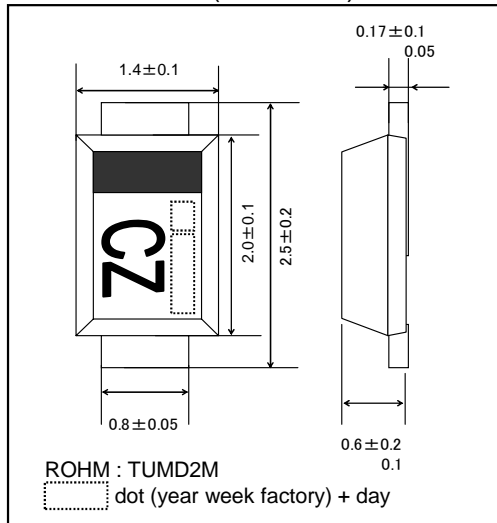
●Features

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

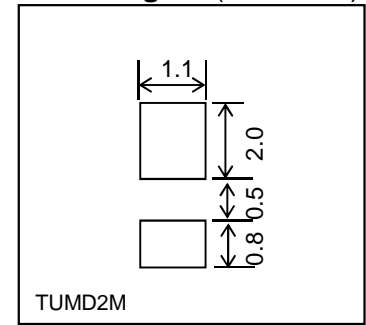
●Construction

Silicon epitaxial planar type

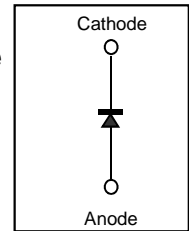
●Dimensions (Unit : mm)



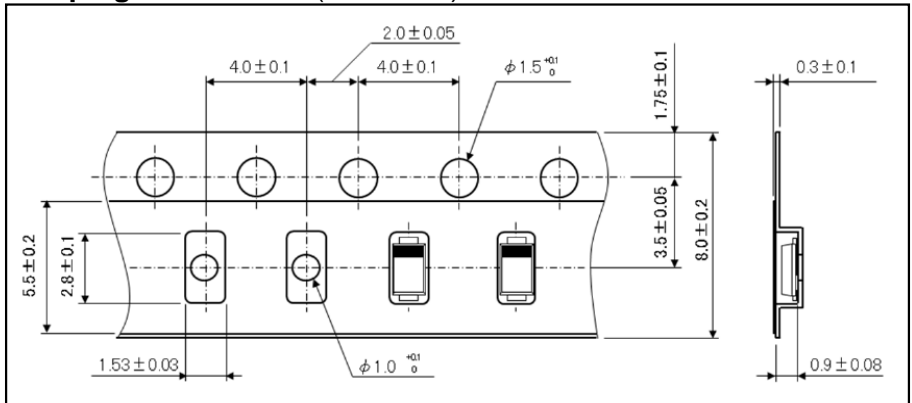
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



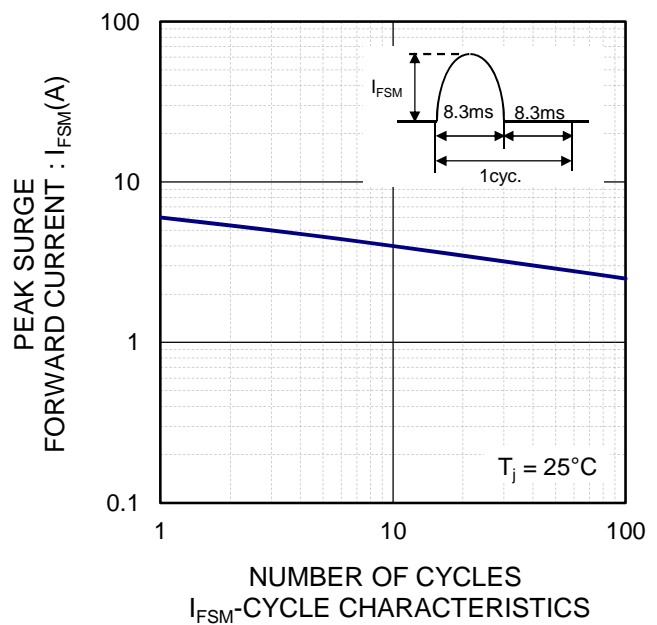
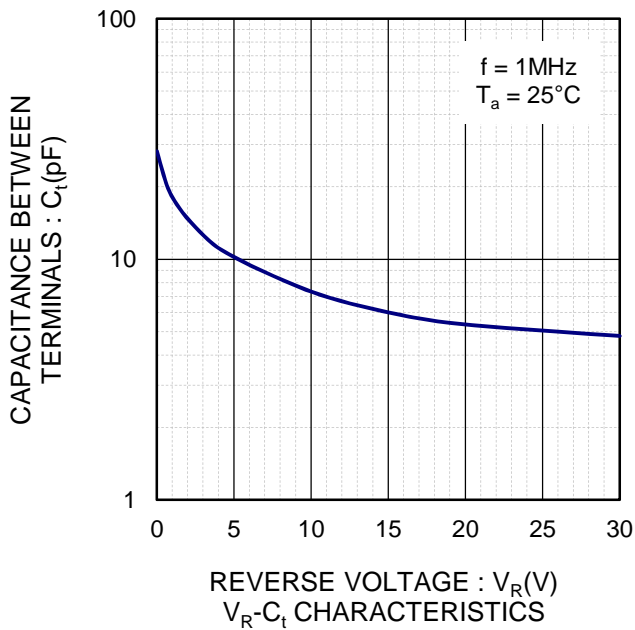
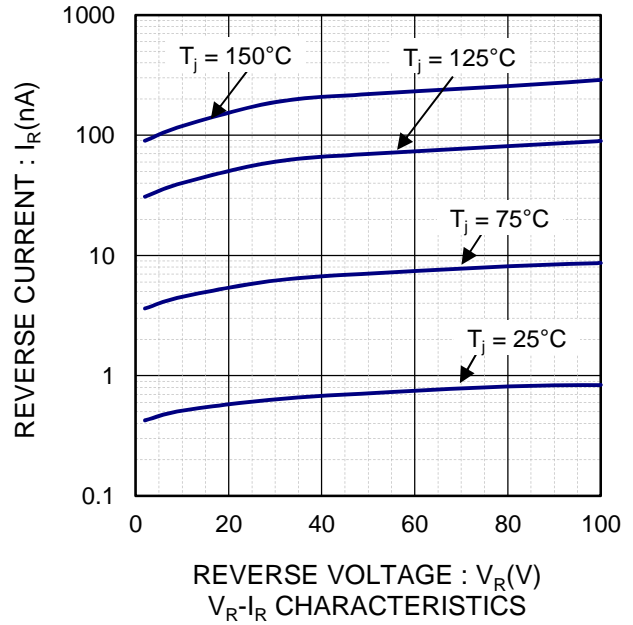
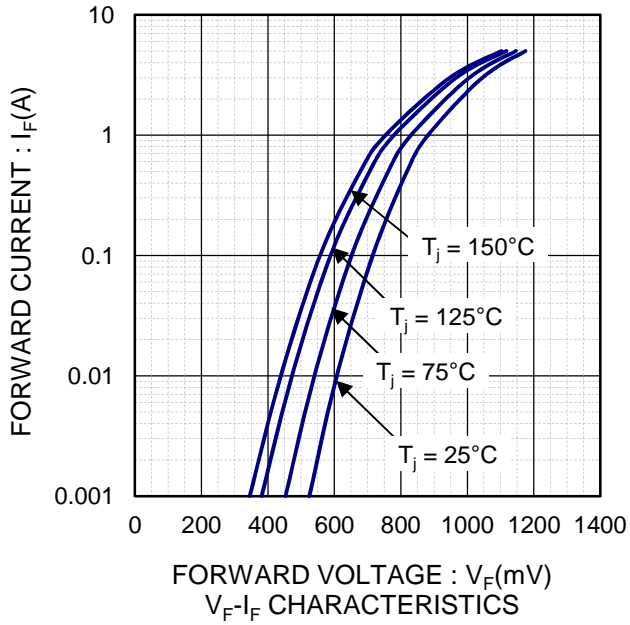
●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

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 $T_j = 25^\circ\text{C}$	6	A
Operating junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 to +150	$^\circ\text{C}$

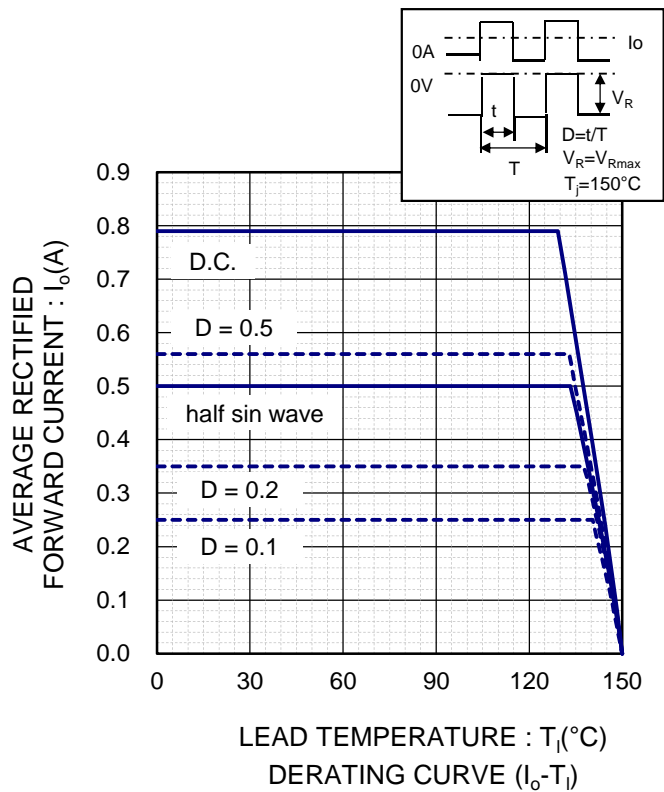
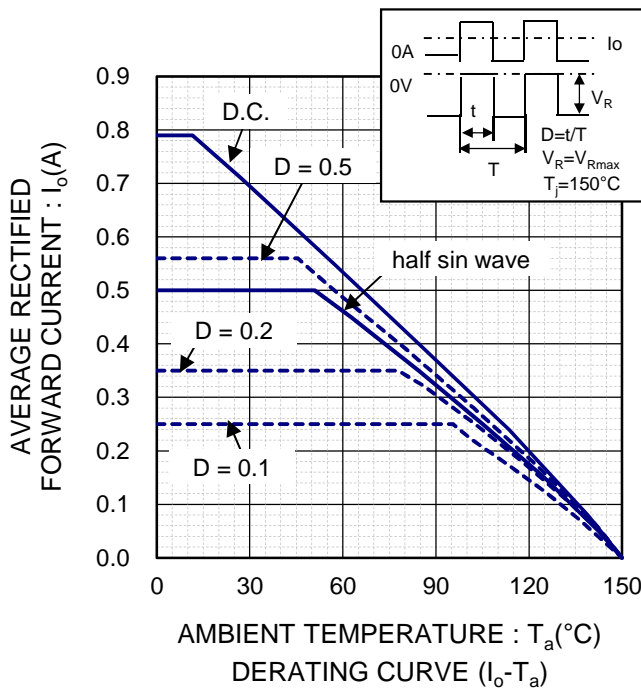
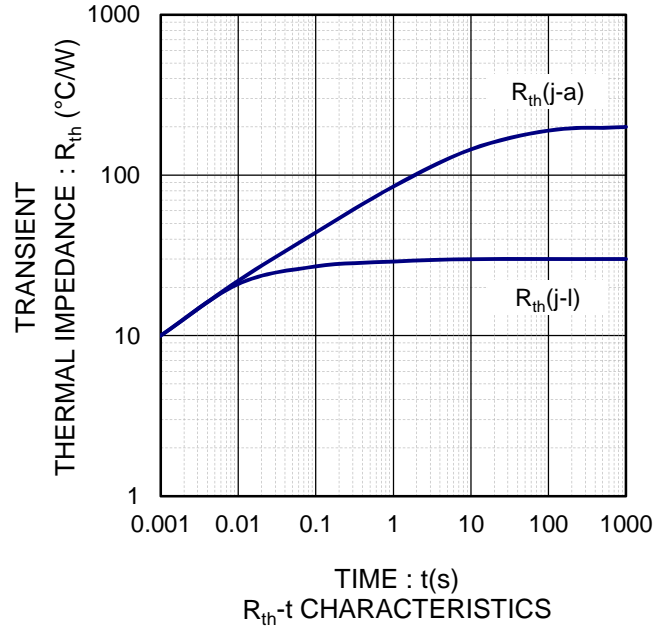
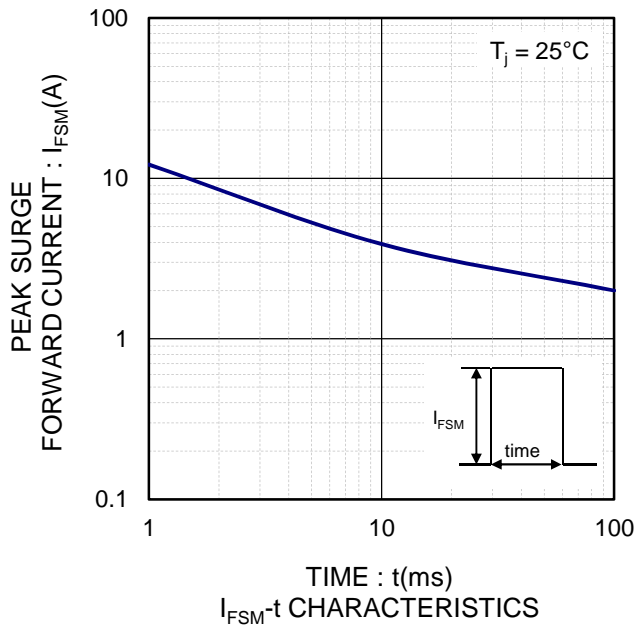
●Electrical characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 0.5\text{A}$	-	0.82	0.98	V
Reverse current	I_R	$V_R = 100\text{V}$	-	0.01	10	μA
Reverse recovery time	t_{rr}	$I_F = 0.5\text{A}, I_R = 1\text{A}, I_{rr} = 0.25 \times I_R$	-	12	25	ns
Thermal resistance	$R_{th(j-l)}$	Junction to lead	-	-	30	$^\circ\text{C} / \text{W}$

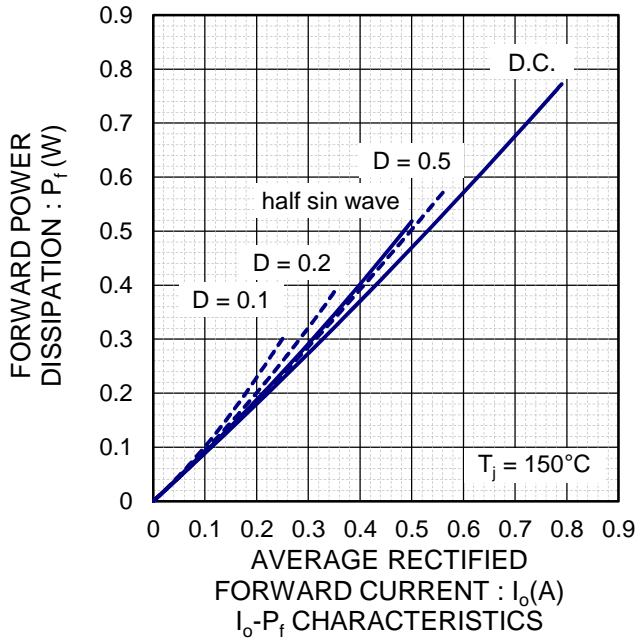
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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