

AEC-Q101 Qualified

●Series

Standard Fast Recovery

●Application

High frequency rectification

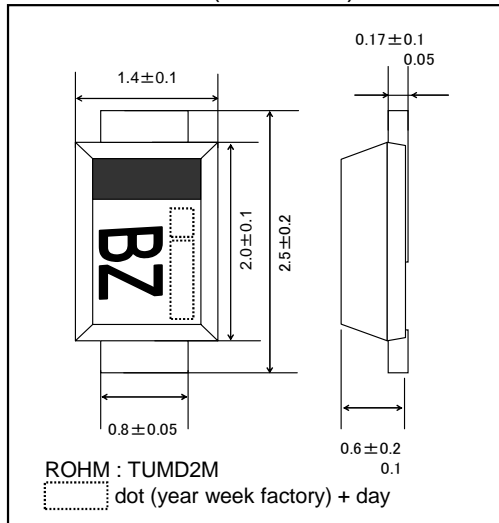
●Features

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

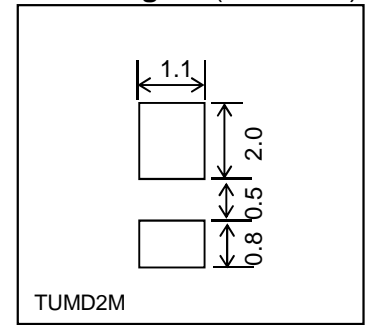
●Construction

Silicon epitaxial planar type

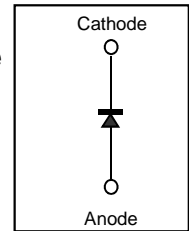
●Dimensions (Unit : mm)



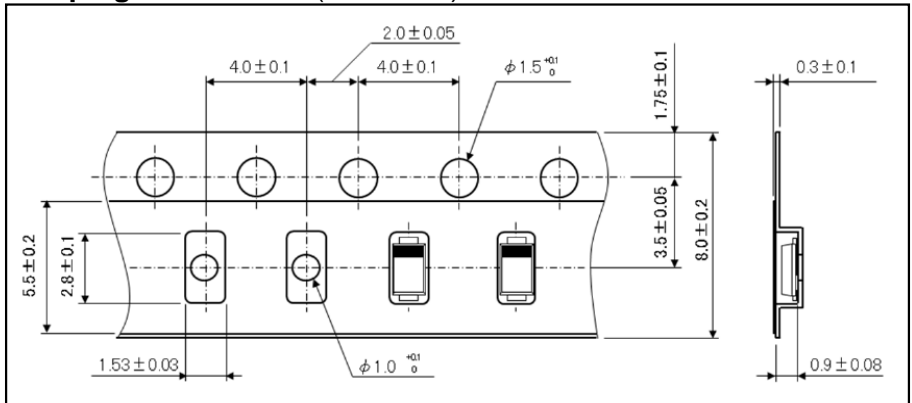
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



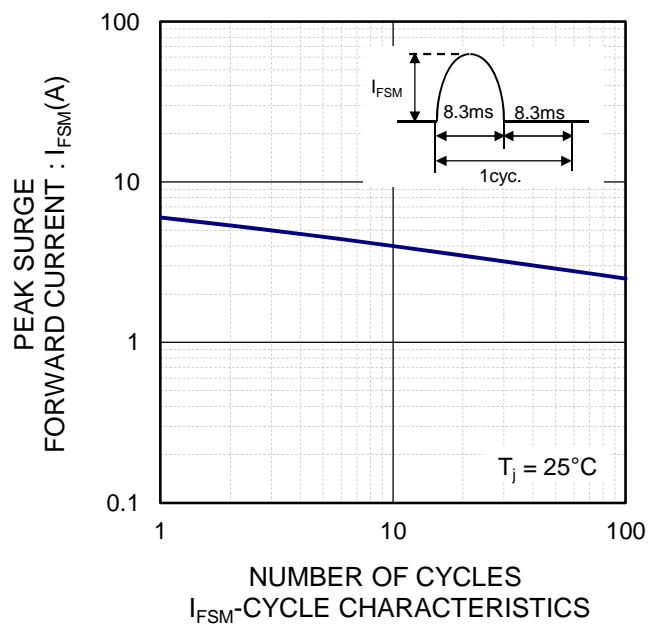
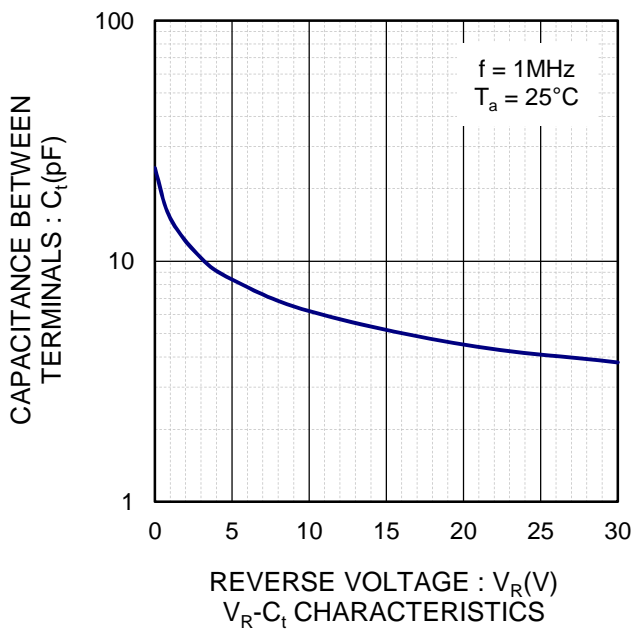
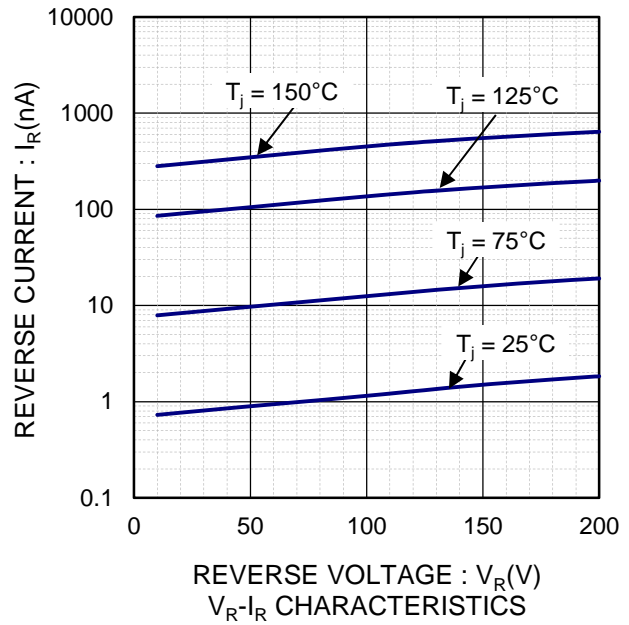
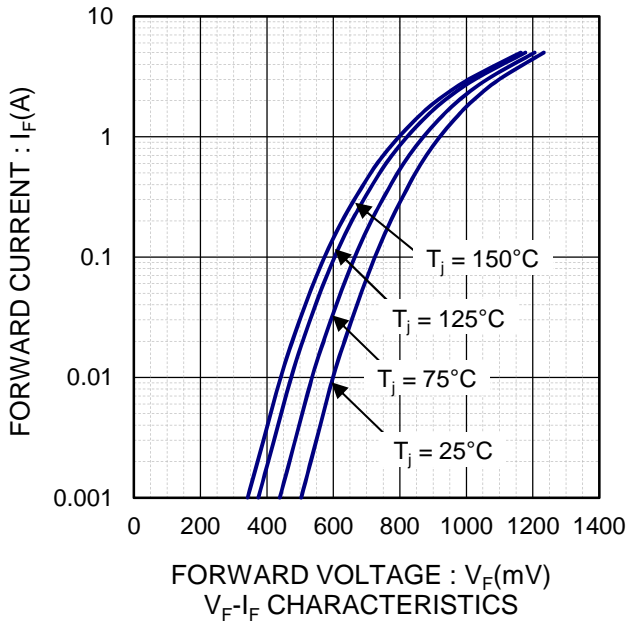
●Absolute maximum ratings (T<sub>a</sub>= 25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V <sub>RM</sub>	Duty ≤ 0.5	200	V
Reverse voltage	V <sub>R</sub>	Direct voltage	200	V
Average current	I <sub>o</sub>	On glass epoxy substrate 60Hz half sin wave , Resistive load	0.5	A
Non-repetitive forward surge current	I <sub>FSM</sub>	60Hz half sin wave ,Non-repetitive at T <sub>j</sub> =25°C	6	A
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

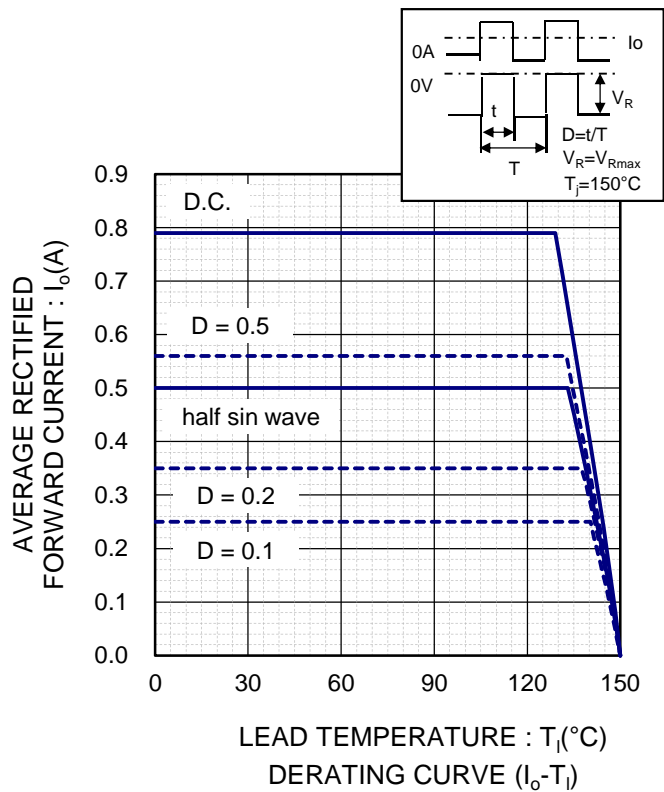
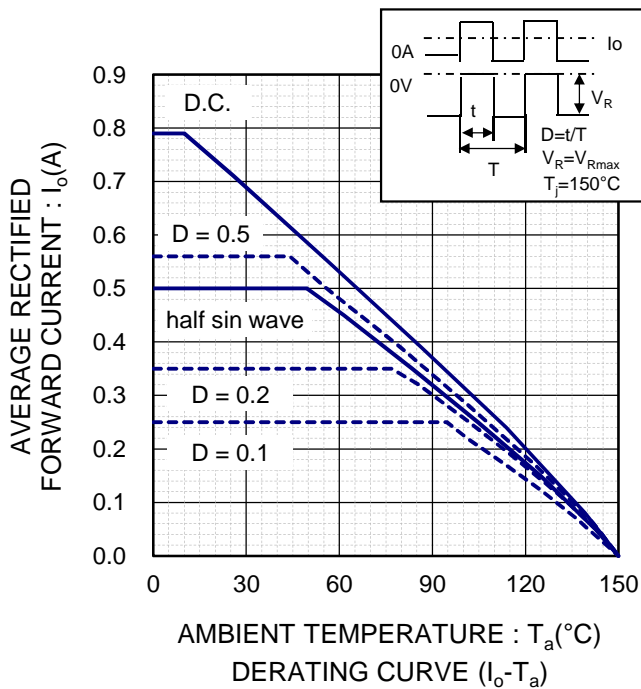
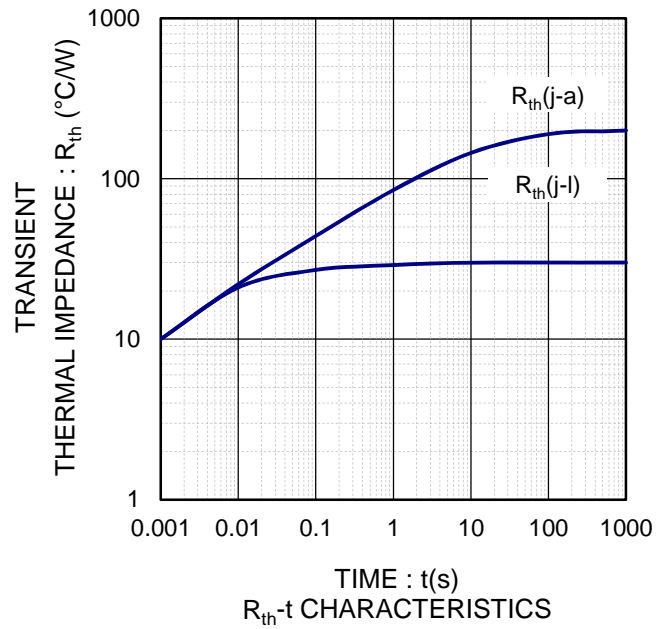
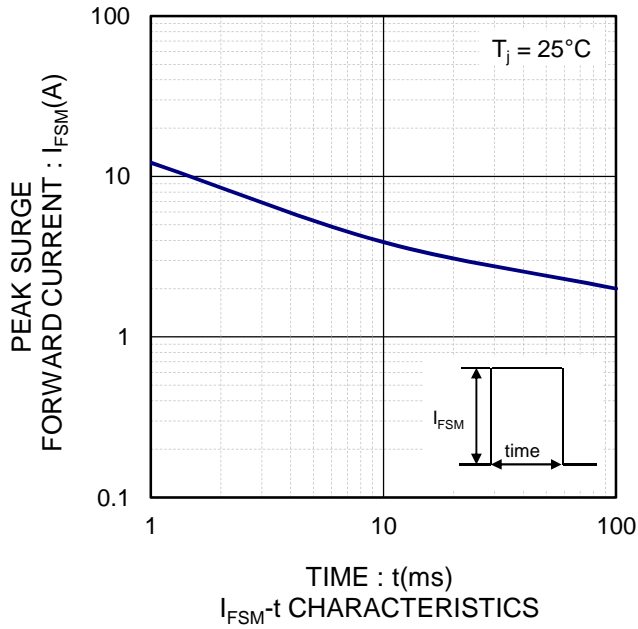
●Electrical characteristics (T<sub>j</sub> = 25°C)

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

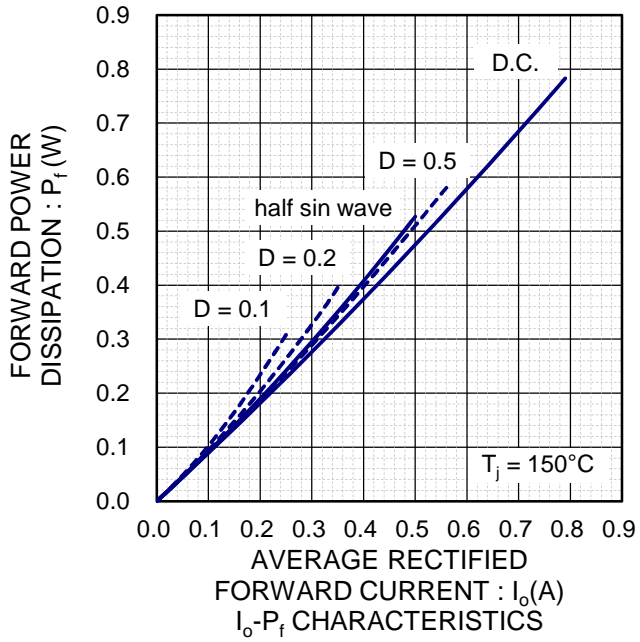
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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