

●Serise

Standard Fast Recovery

●Application

High frequency rectification

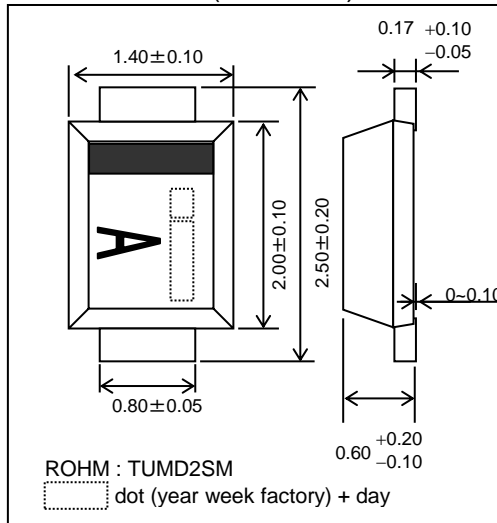
●Features

- 1) Small mold type (TUMD2SM)
- 2) High speed switching

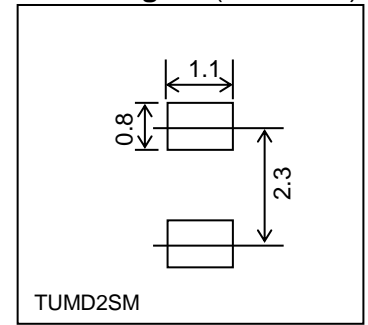
●Construction

Silicon epitaxial planar type

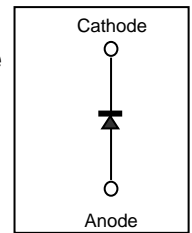
●Dimensions (Unit : mm)



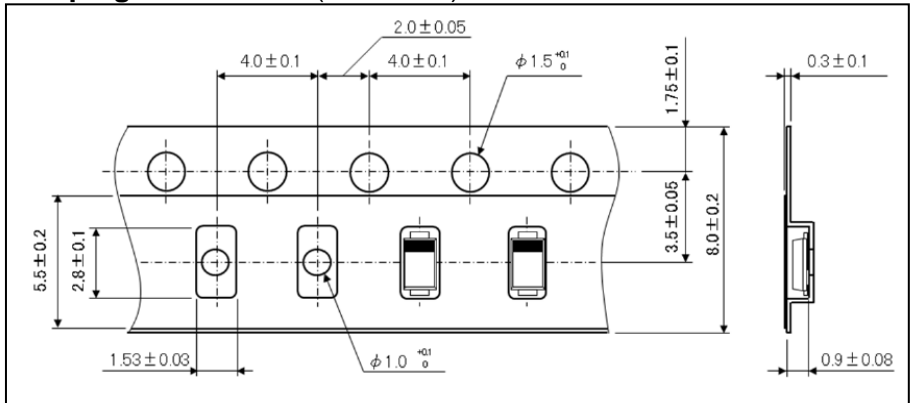
●Land size figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



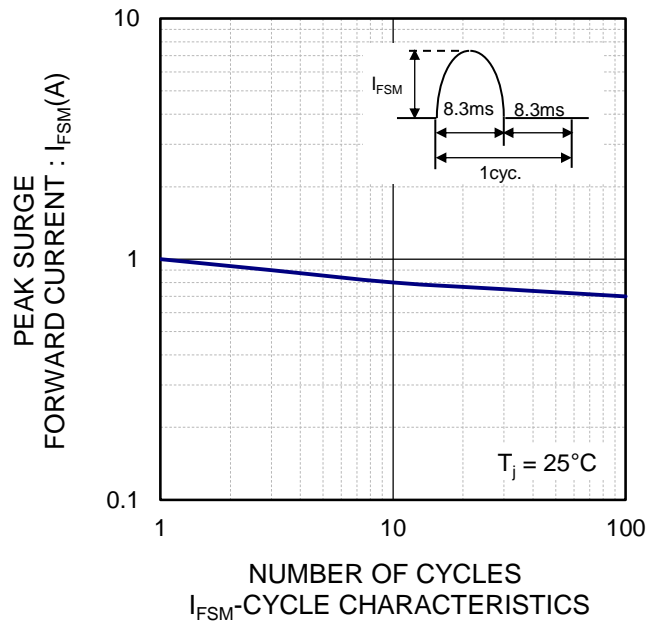
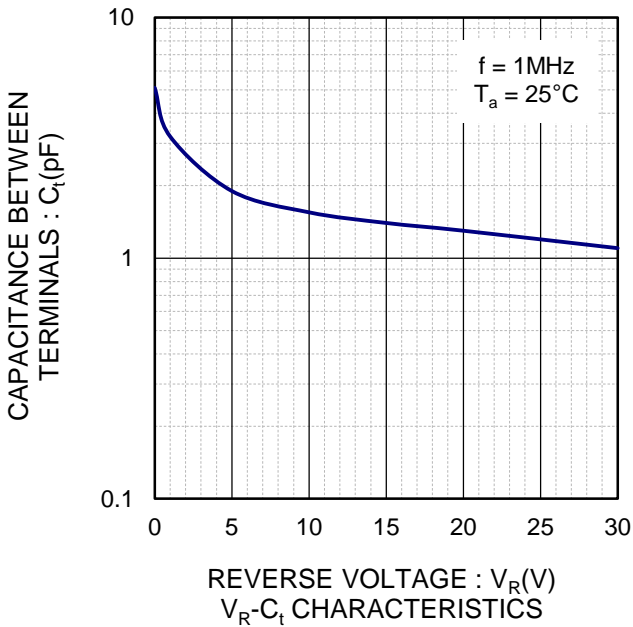
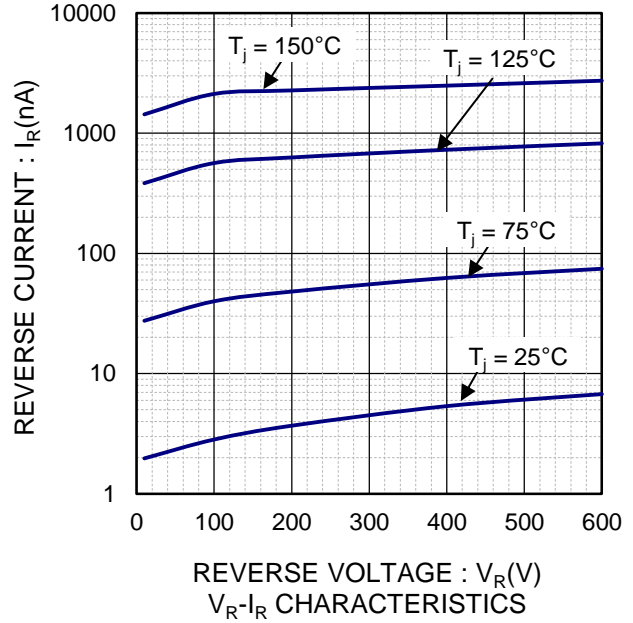
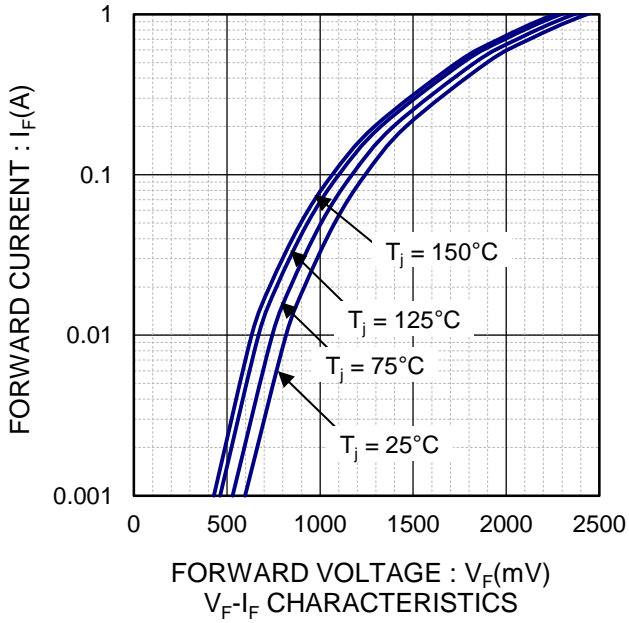
●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty ≤ 0.5	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average current	I_o	On glass epoxy substrate 60Hz half sin wave , Resistive load	0.2	A
Non-repetitive forward surge current	I_{FSM}	60Hz half sin wave , Non-repetitive at $T_j=25^\circ\text{C}$	1	A
Operating junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 to +150	$^\circ\text{C}$

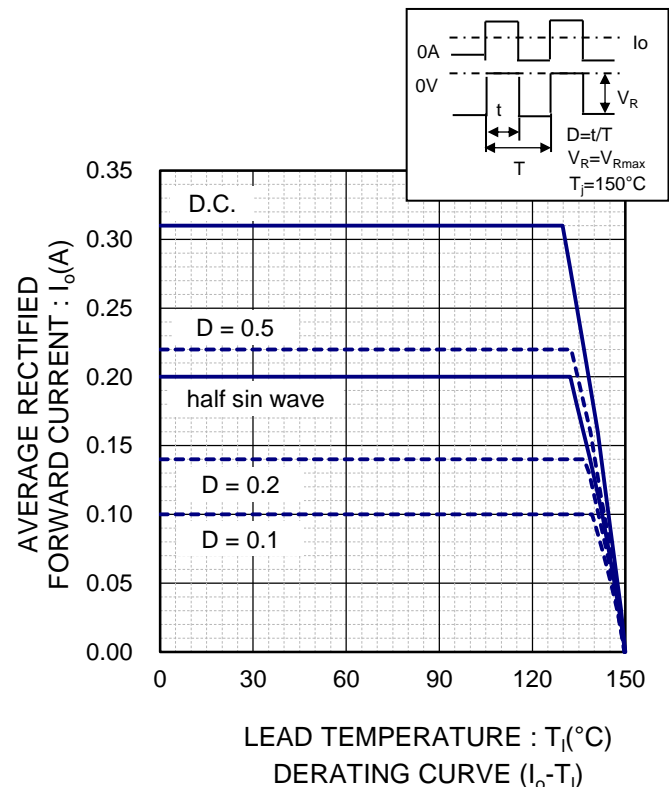
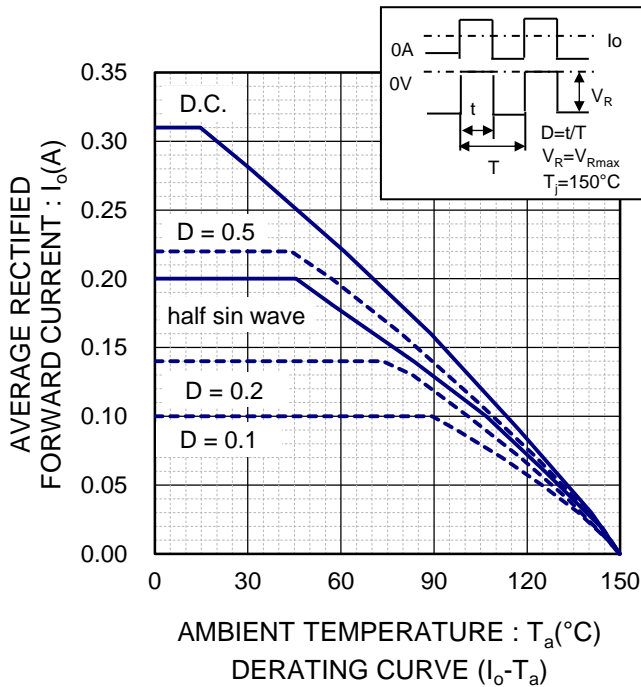
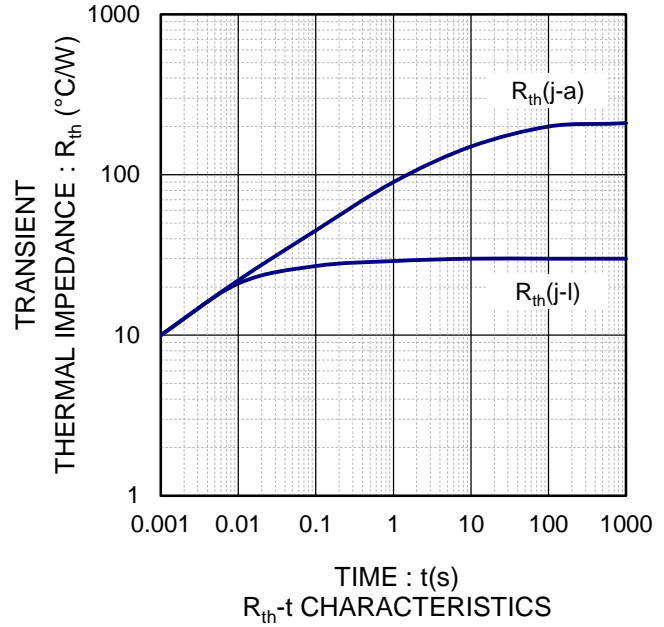
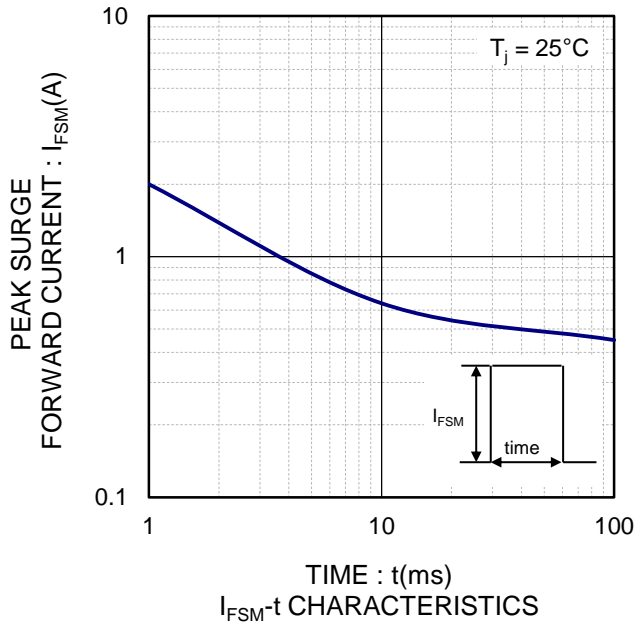
●Electrical characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=0.2\text{A}$	-	1.5	2.2	V
Reverse current	I_R	$V_R=600\text{V}$	-	0.01	10	μA
Reverse recovery time	trr	$I_F=0.1\text{A}, I_R=0.1\text{A}, I_{rr}=0.1 \times I_R$	-	24	35	ns
Reverse recovery time	trr	$I_F=0.1\text{A}, I_R=0.2\text{A}, I_{rr}=0.1 \times I_R$	-	15	25	ns
Thermal capacitance	C_t	$V_R=0\text{V}, f=1\text{MHz}$	-	5	-	pF

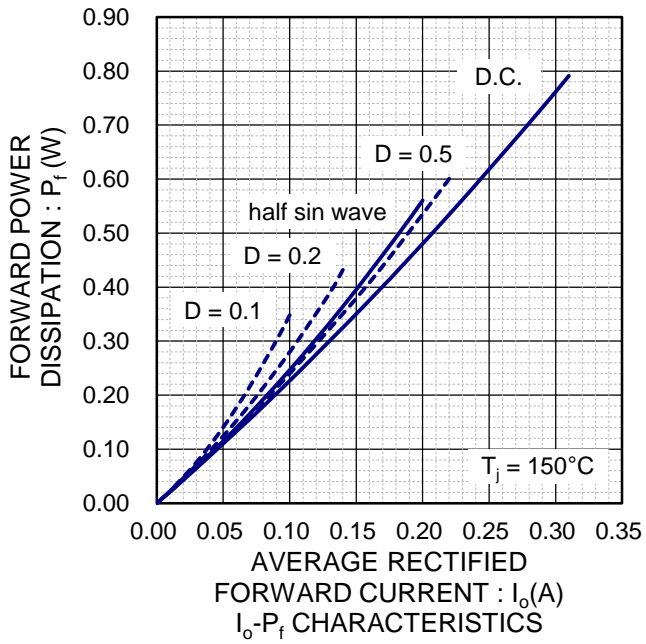
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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