

### ●Serie

Standard Fast Recovery

### ●Application

High frequency rectification

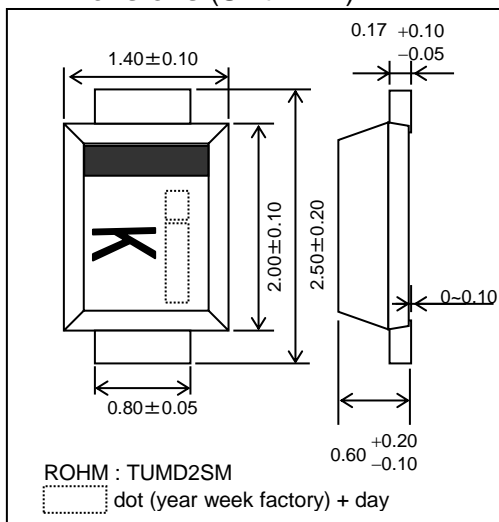
### ●Features

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

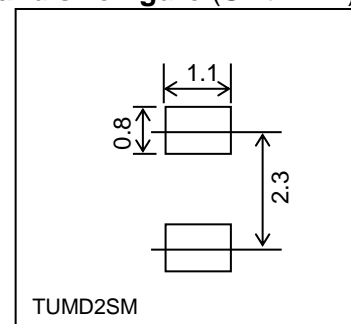
### ●Construction

Silicon epitaxial planar type

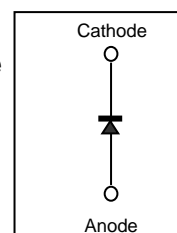
### ●Dimensions (Unit : mm)



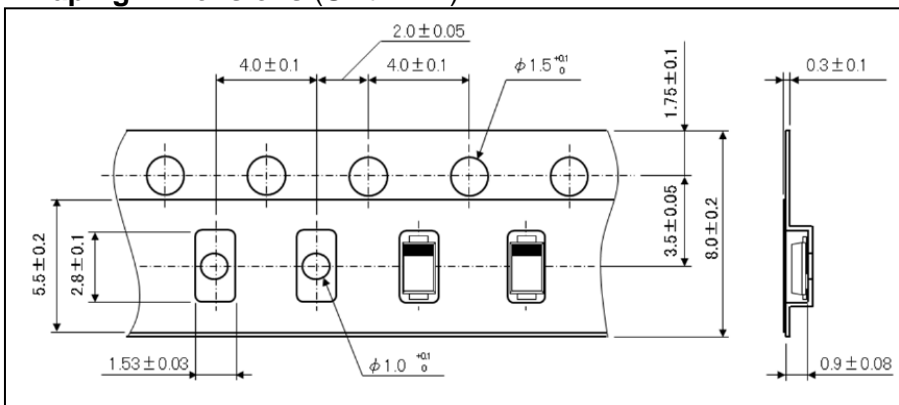
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping Dimensions (Unit : mm)



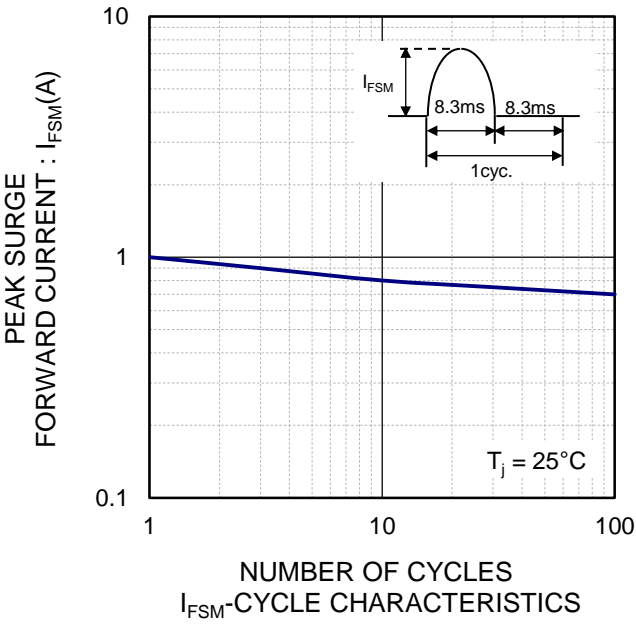
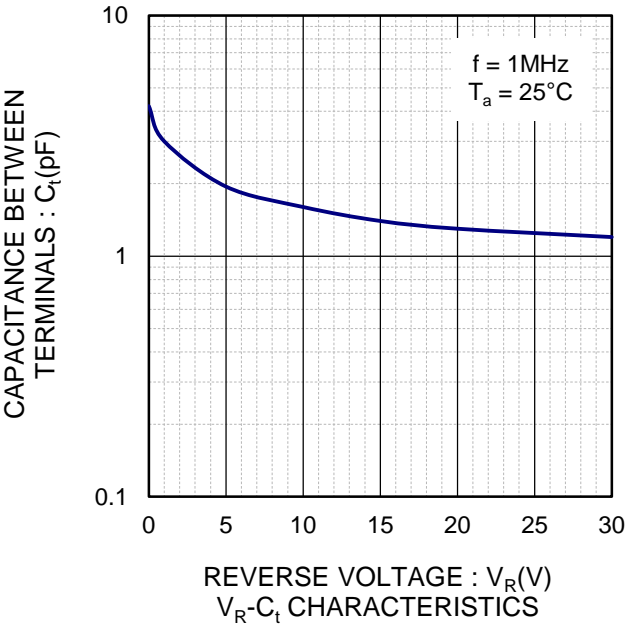
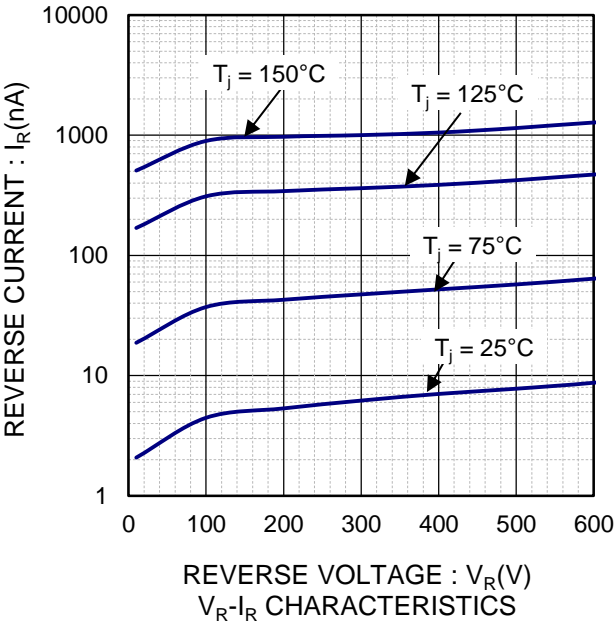
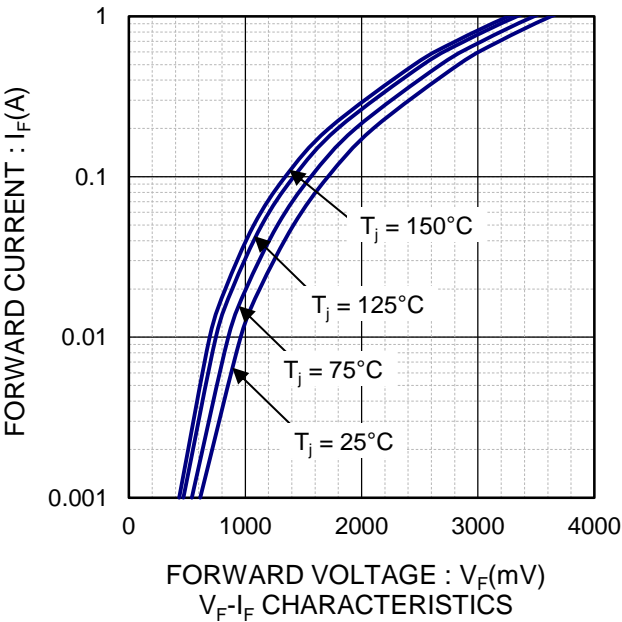
### ●Absolute maximum ratings ( $T_j = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty $\leq 0.5$	800	V
Reverse voltage	$V_R$	Direct voltage	800	V
Average current	$I_o$	On glass epoxy substrate 60Hz half sin wave, Resistive load $T_j = 125^\circ\text{C}$	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	$^\circ\text{C}$

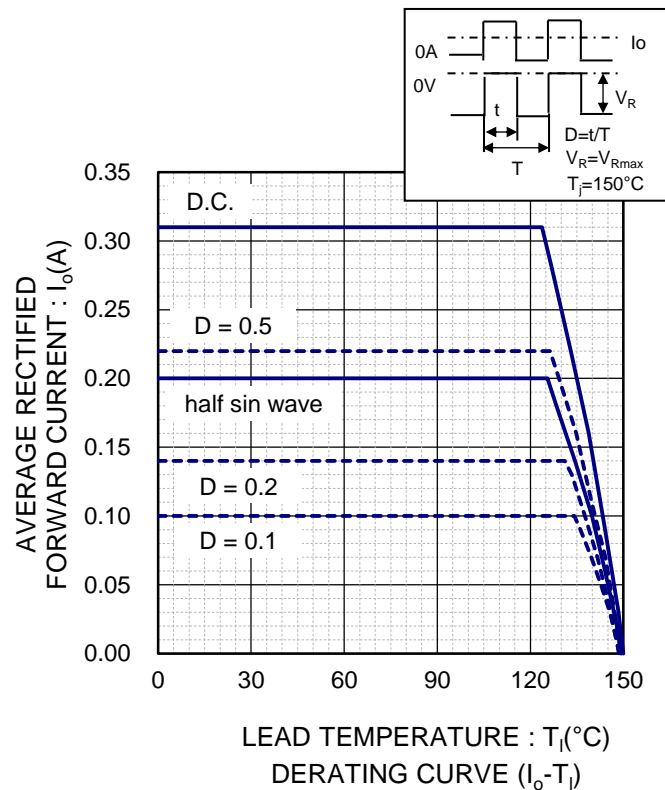
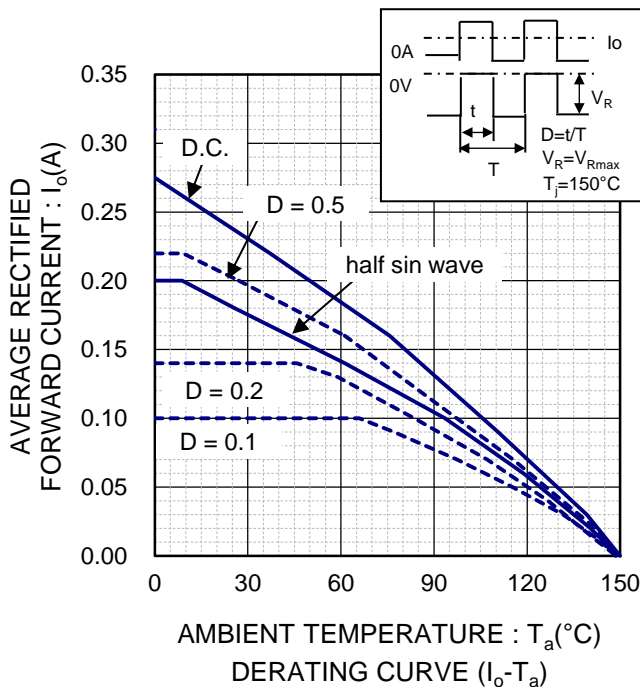
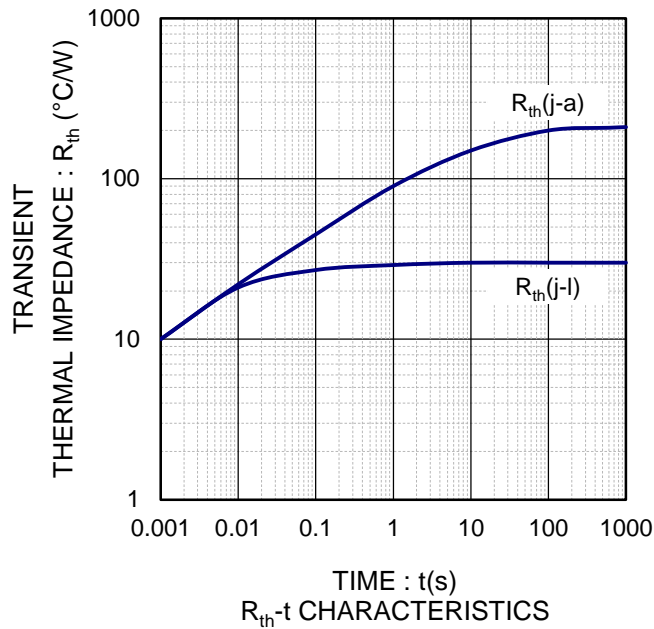
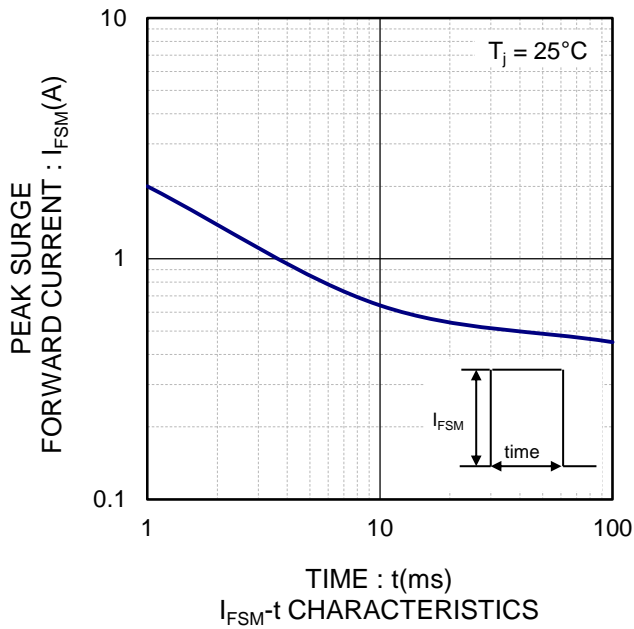
### ●Electrical characteristics ( $T_j = 25^\circ\text{C}$ )

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F = 0.2\text{A}$	-	2.2	3.0	V
Reverse current	$I_R$	$V_R = 800\text{V}$	-	0.01	10	$\mu\text{A}$
Reverse recovery time	$t_{rr}$	$I_F = 0.1\text{A}$ , $I_R = 0.1\text{A}$ , $I_{rr} = 0.1 \times I_R$	-	20	35	ns
Reverse recovery time	$t_{rr}$	$I_F = 0.1\text{A}$ , $I_R = 0.2\text{A}$ , $I_{rr} = 0.1 \times I_R$	-	13	25	ns
Thermal capacitance	$C_t$	$V_R = 0\text{V}$ , $f = 1\text{MHz}$	-	4	-	pF

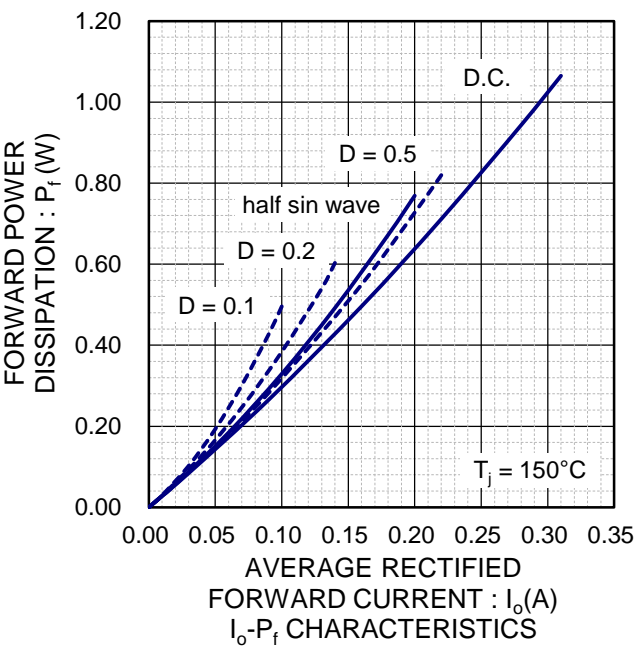
●Electrical characteristic curves



●Electrical characteristic curves



●Electrical characteristic curves



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