

●Application

General Rectification

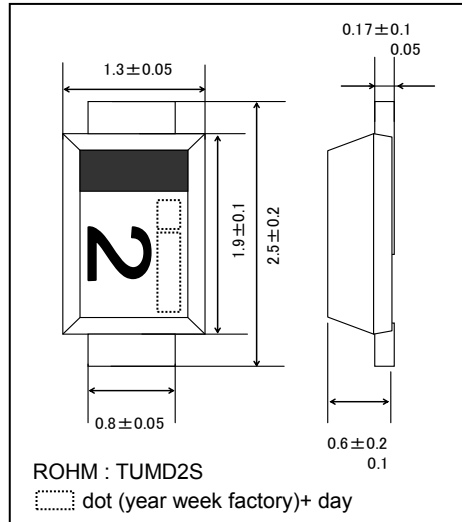
●Features

- 1) Small mold type. (TUMD2S)
- 2) Low V_F
- 3) High voltage

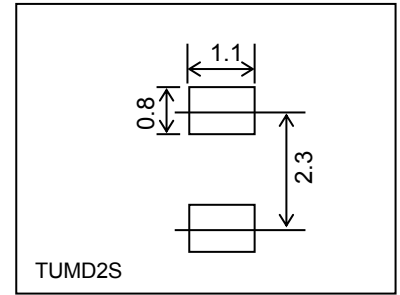
●Construction

Silicon epitaxial planar

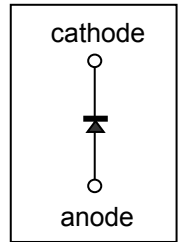
●Dimensions (Unit : mm)



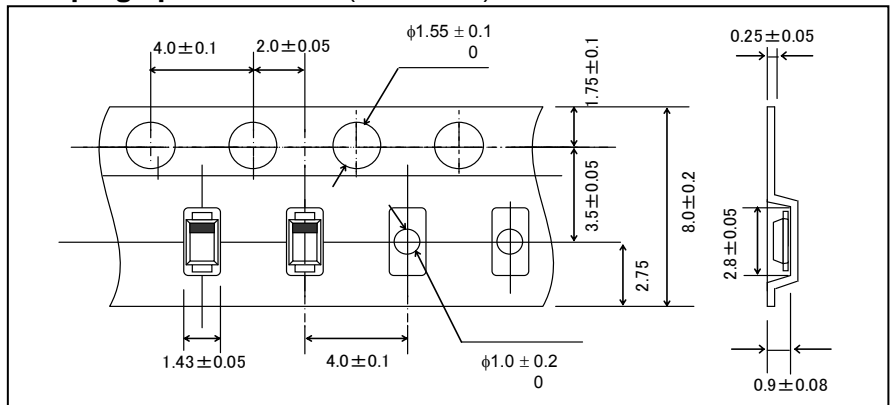
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



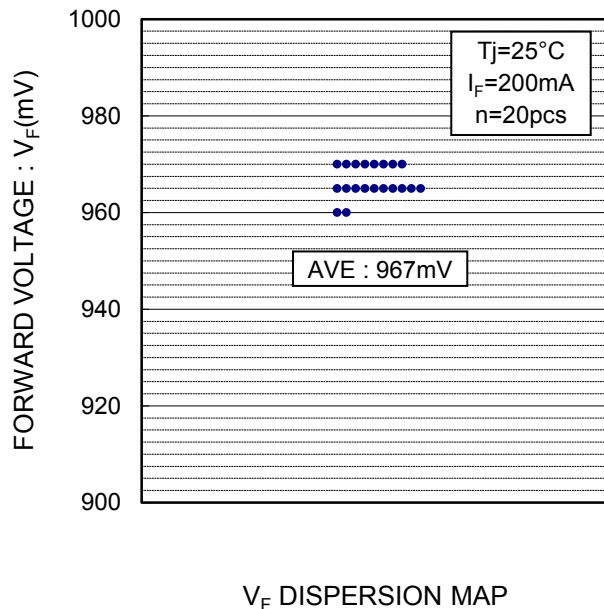
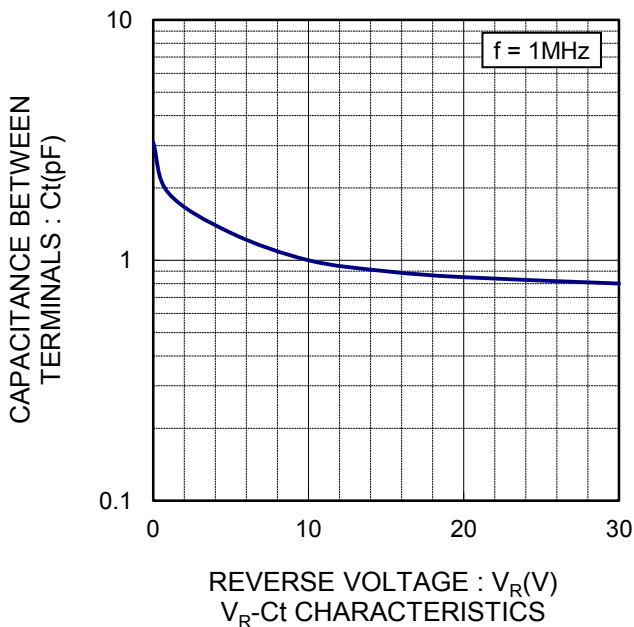
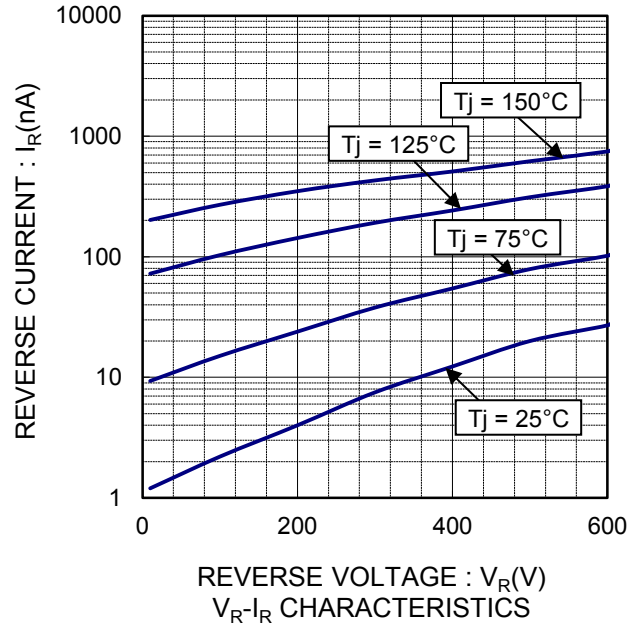
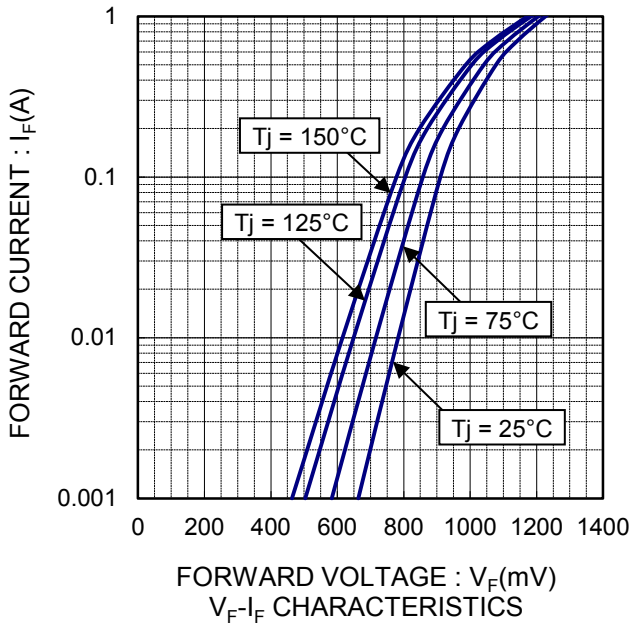
●Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit	Conditions
Repetitive peak reverse voltage	V_{RM}	600	V	$D \leq 0.5$
Reverse voltage	V_R	600	V	Direct voltage
Average rectified forward current	I_o	0.2	A	Glass epoxy substrate mounted R-road, 60Hz half sin wave
Forward current surge peak	I_{FSM}	1	A	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j = 25^\circ\text{C}$
Junction temperature	T_j	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$	

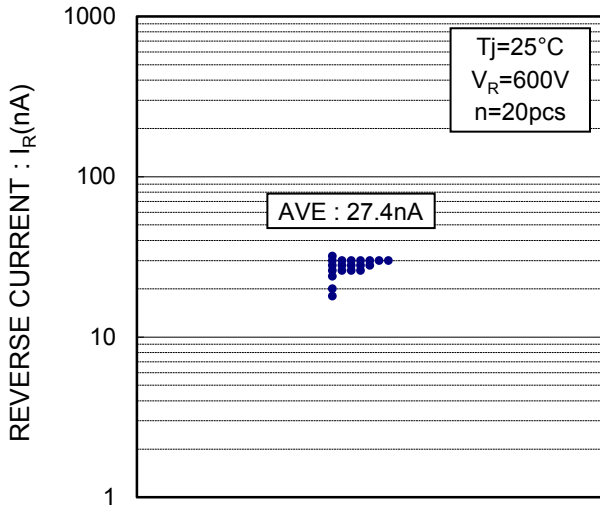
●Electrical characteristics ($T_j = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.97	1.1	V	$I_F = 0.2\text{A}$
Reverse current	I_R	-	0.01	1	μA	$V_R = 600\text{V}$

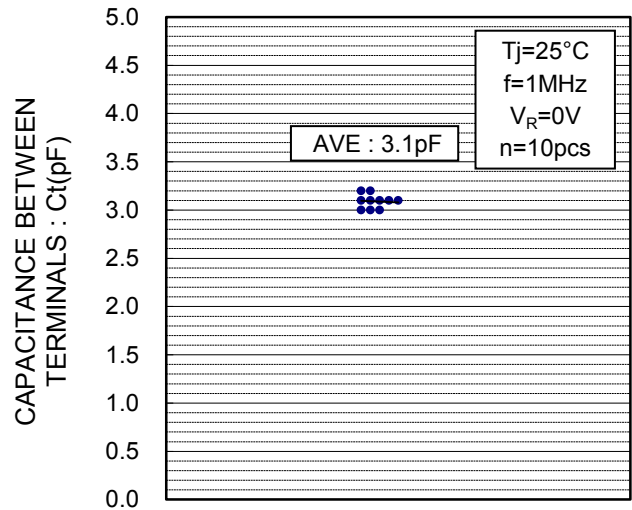
●Electrical characteristic curves



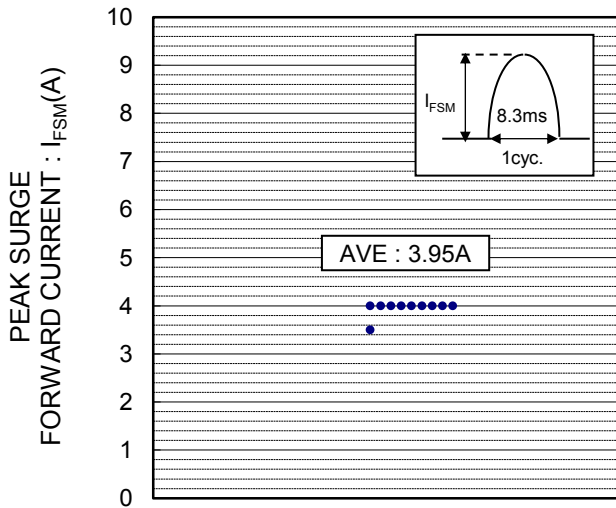
●Electrical characteristic curves



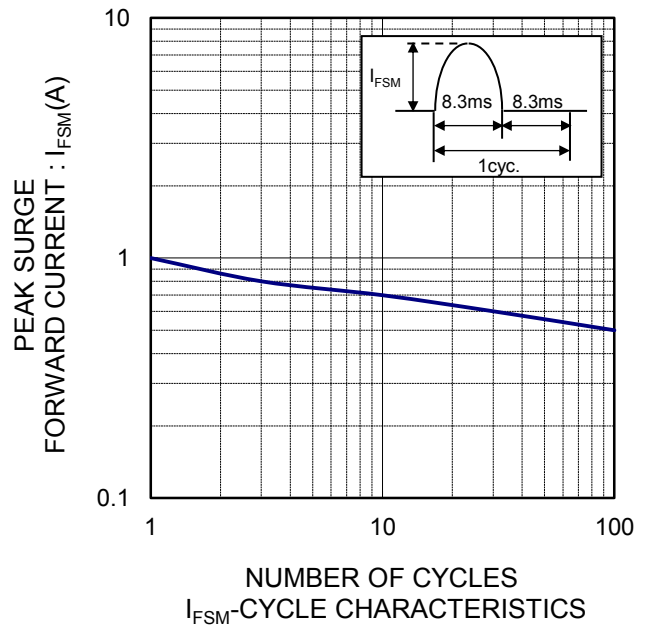
I_R DISPERSION MAP



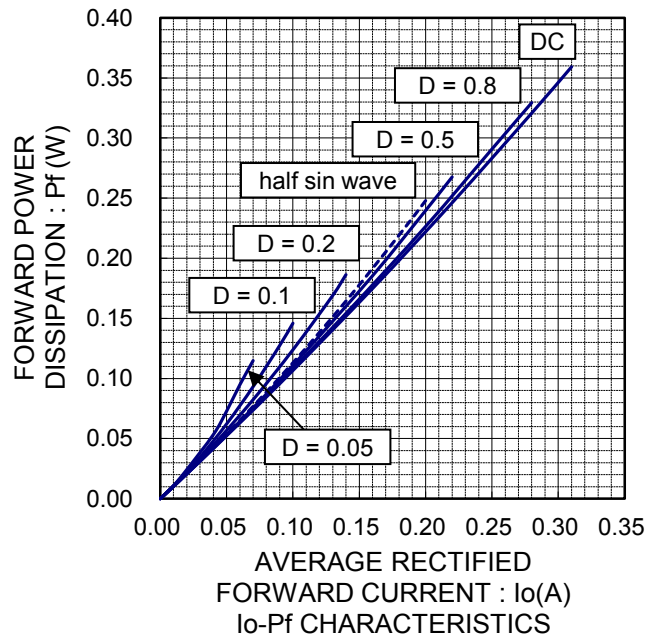
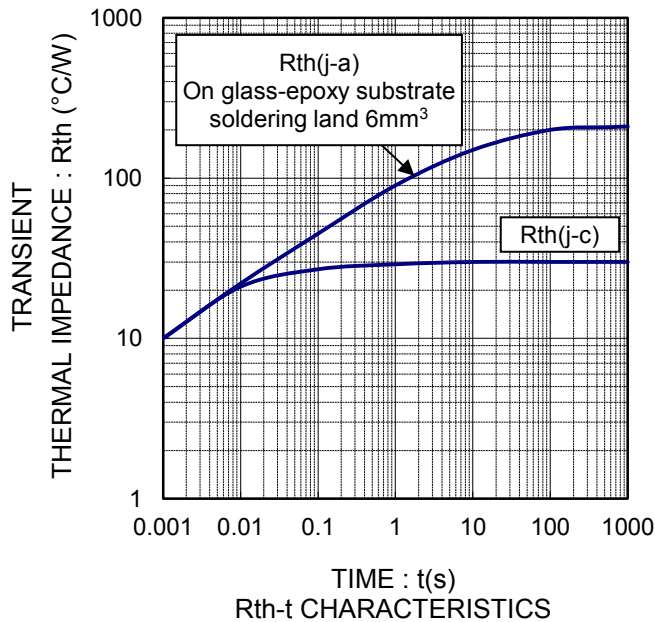
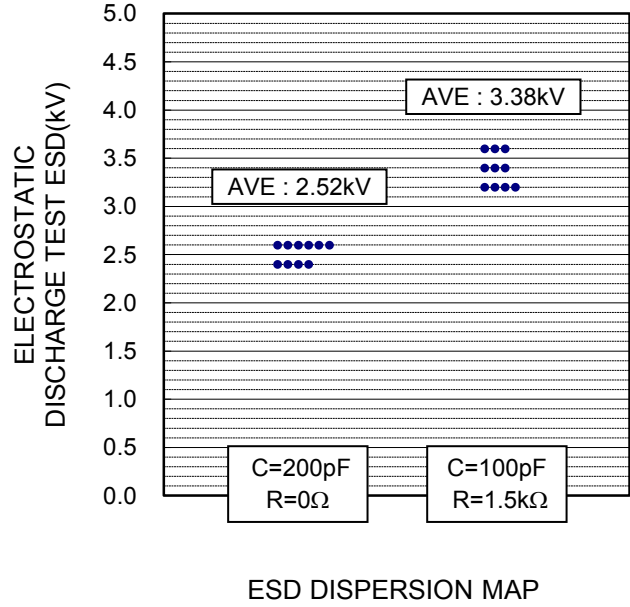
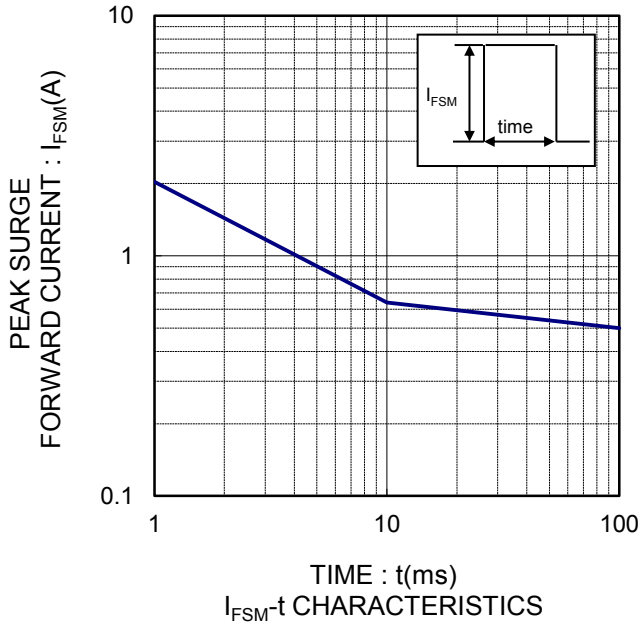
C_t DISPERSION MAP



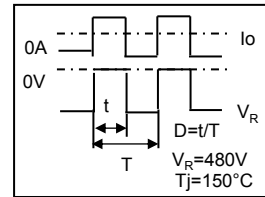
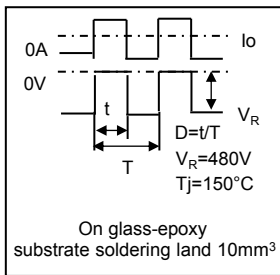
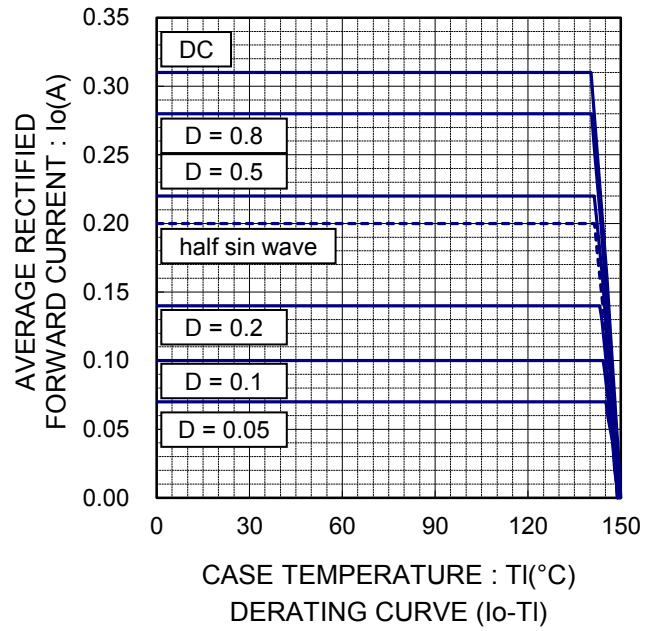
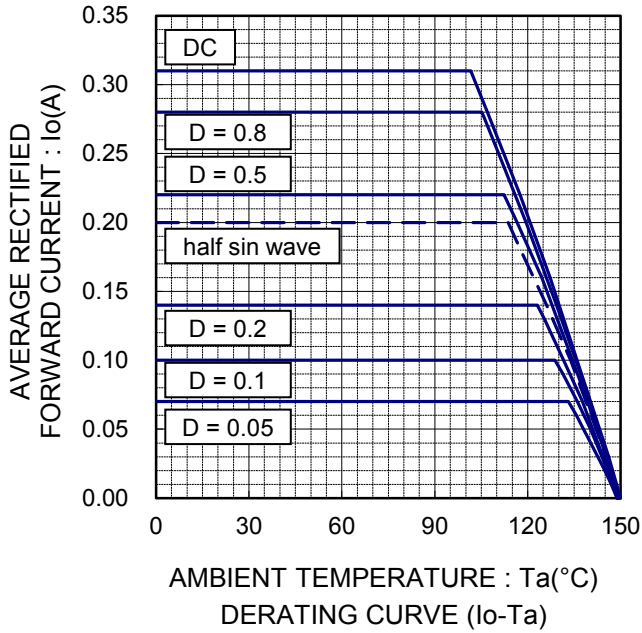
I_{FSM} DISPERSION MAP



●Electrical characteristic curves



●Electrical characteristic curves



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