

Super Fast Recovery Diode

RFU02VS6S
●Series

Ultra Fast Recovery

●Applications

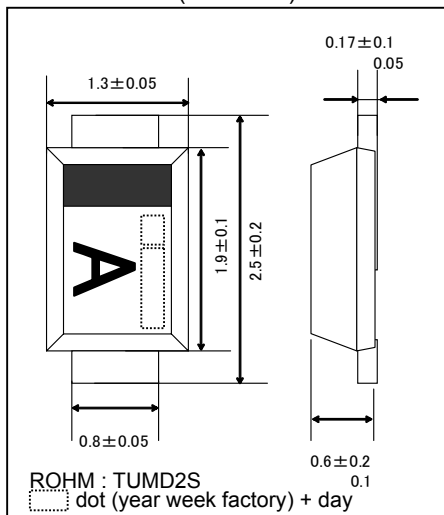
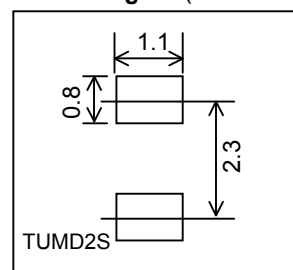
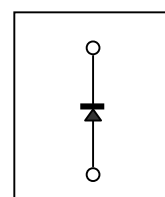
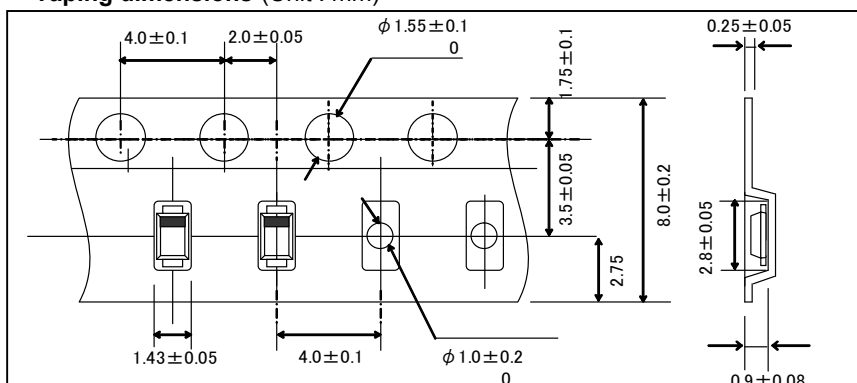
High frequency rectification

●Features

- 1) Small mold type.(TUMD2S)
- 2) high switching speed

●Construction

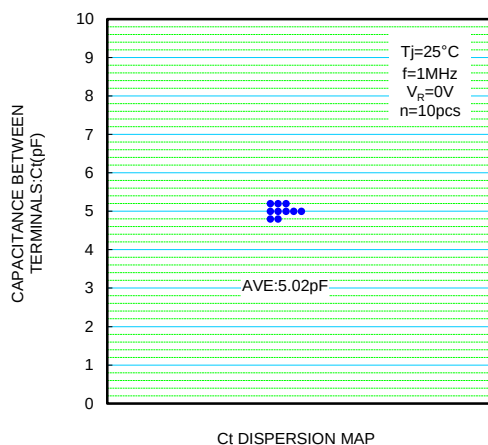
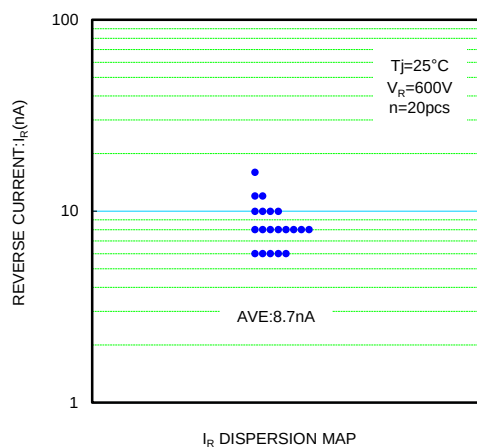
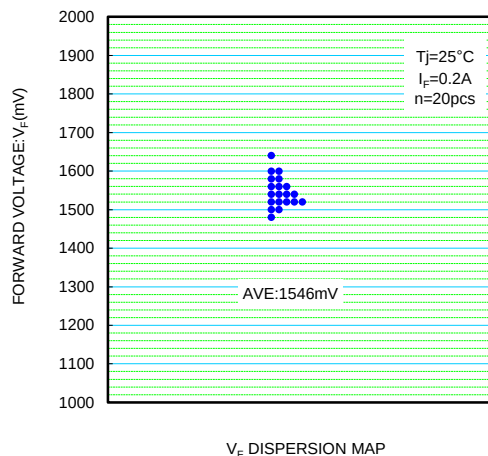
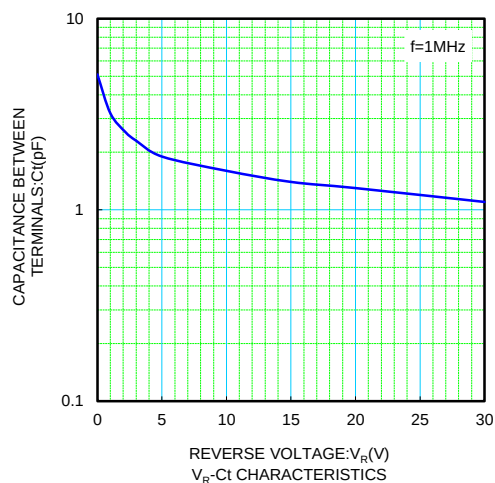
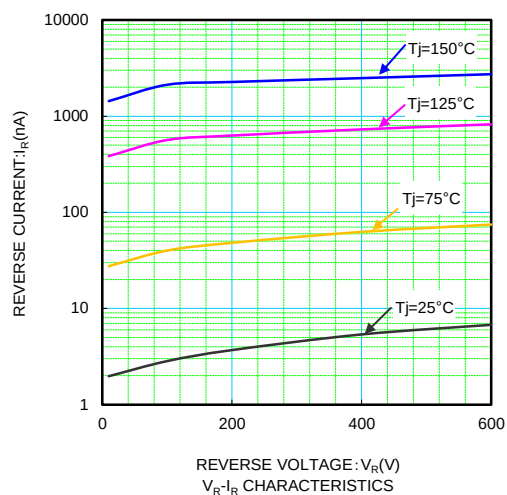
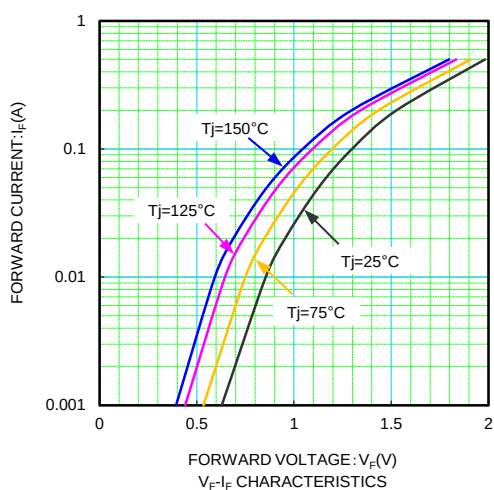
Silicon epitaxial planer

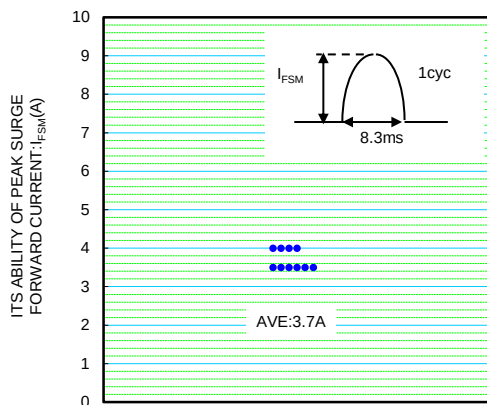
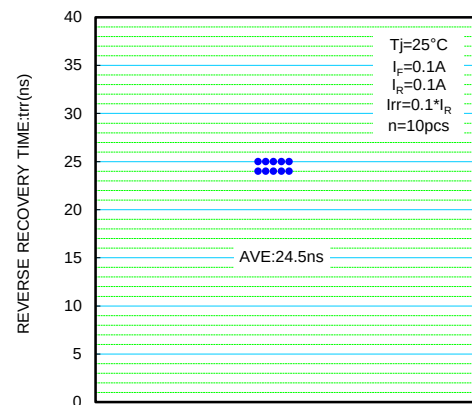
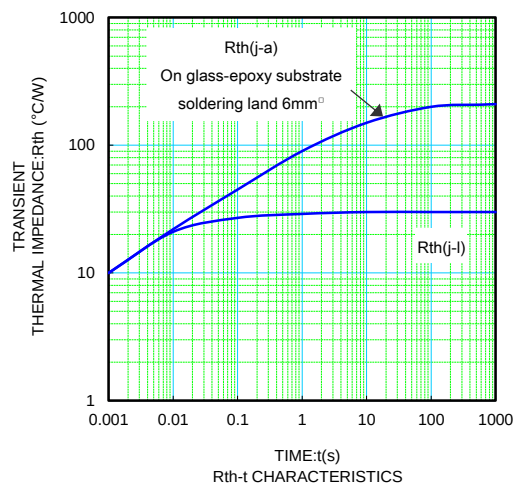
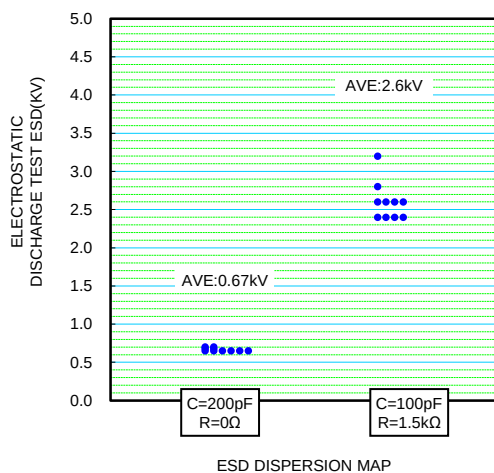
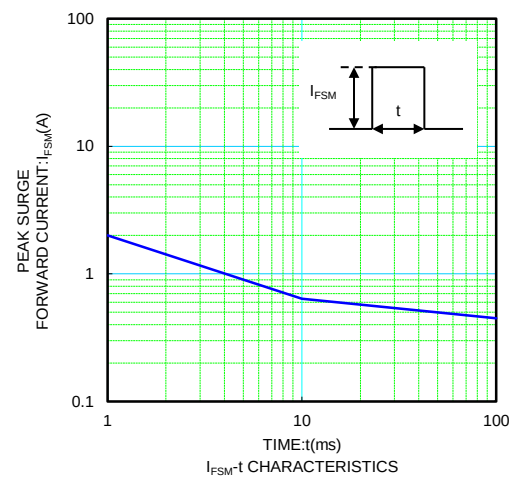
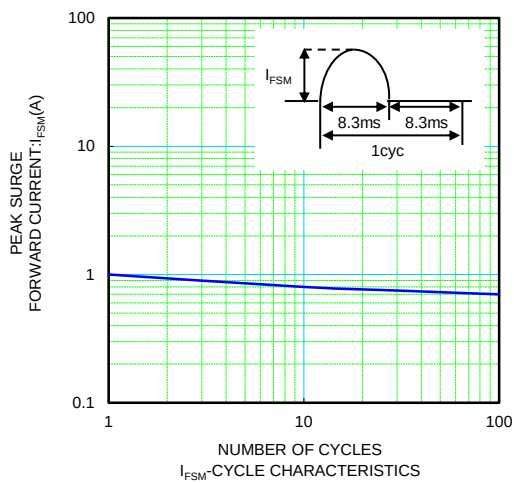
●Dimensions (Unit : mm)

●Land size figure (Unit : mm)

●Structure

●Taping dimensions (Unit : mm)

●Absolute maximum ratings (Ta=25°C)

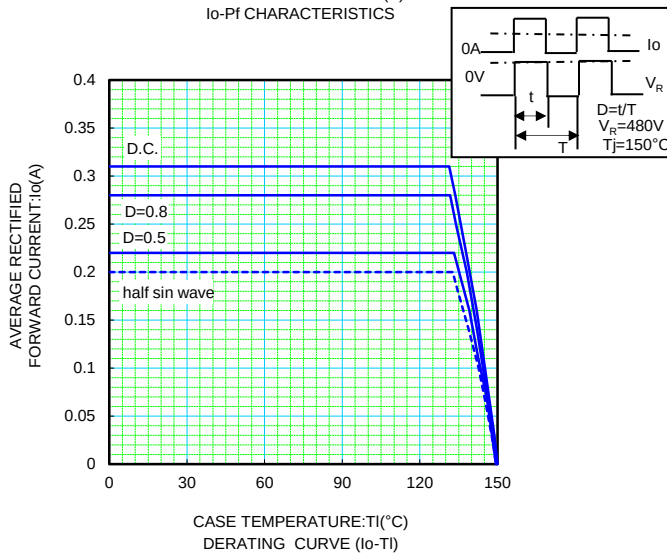
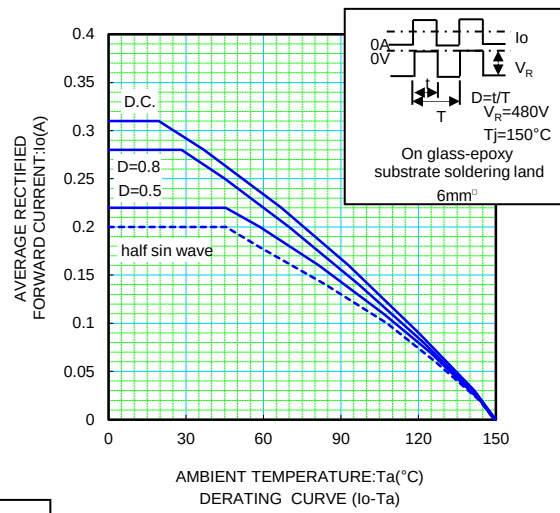
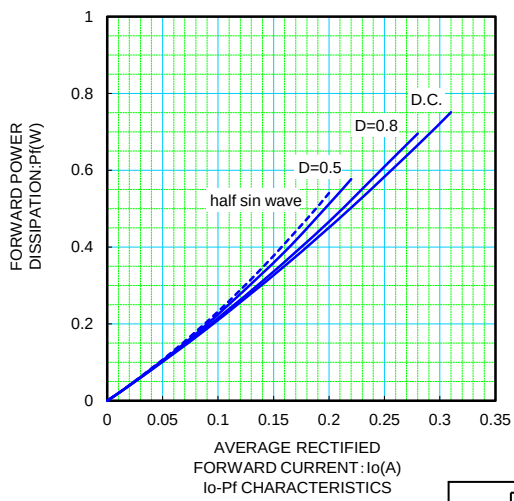
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	$D \leq 0.5$	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average rectified forward current	I_o	Glass epoxy substrate mounted R-road, 60Hz half sin wave	0.2	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive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

●Electrical characteristics (Tj=25°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	t_{rr}	$I_F = 0.1\text{A}, I_R = 0.1\text{A}, I_{rr} = 0.1 \times I_R$	—	24	35	ns
Reverse recovery time	t_{rr}	$I_F = 0.1\text{A}, I_R = 0.2\text{A}, I_{rr} = 0.1 \times I_R$	—	15	25	ns
Thermal capacitance	C_t	$V_R = 0\text{V}, f = 1\text{MHz}$	—	5	—	pF



 I_{FSM} DISPERSION MAP trr DISPERSION MAP



Notes

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