

Super Fast Recovery Diode

RFU02VS6S

●Series

Ultra Fast Recovery

●Applications

High frequency rectification

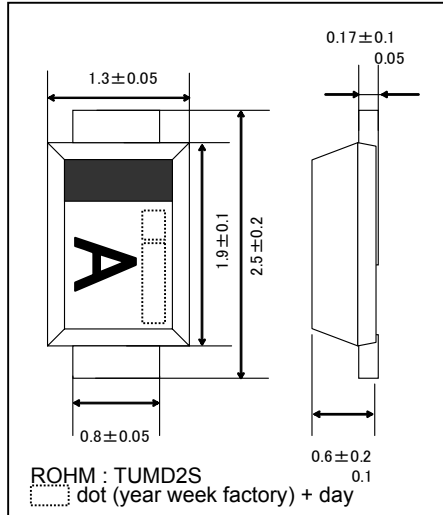
●Features

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

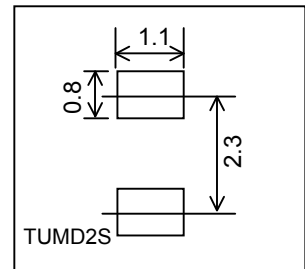
●Construction

Silicon epitaxial planer

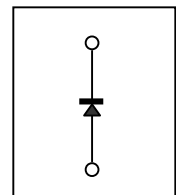
●Dimensions (Unit : mm)



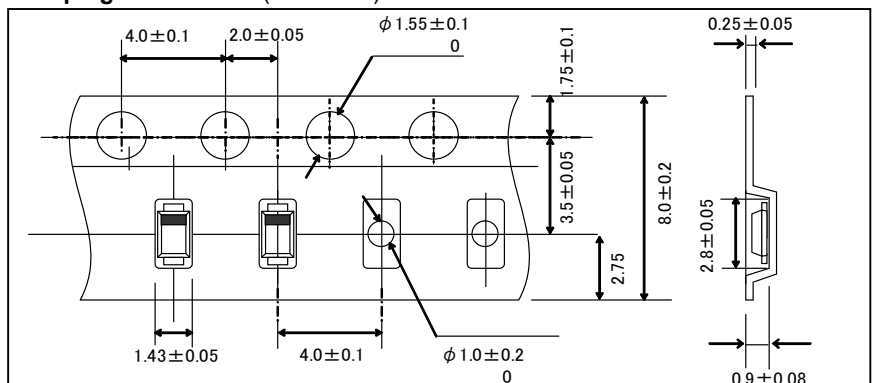
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

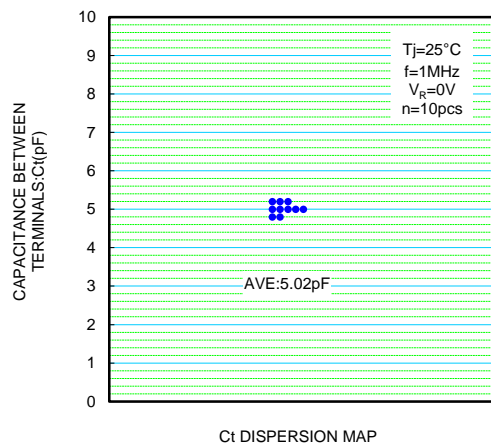
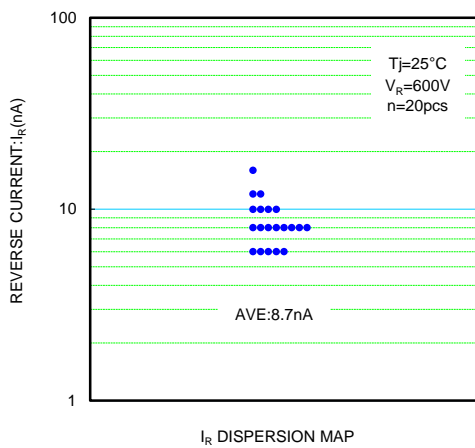
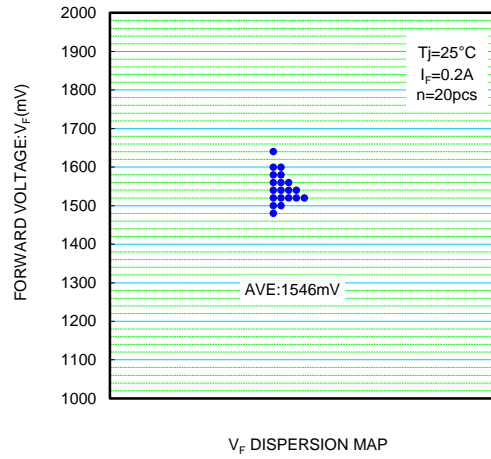
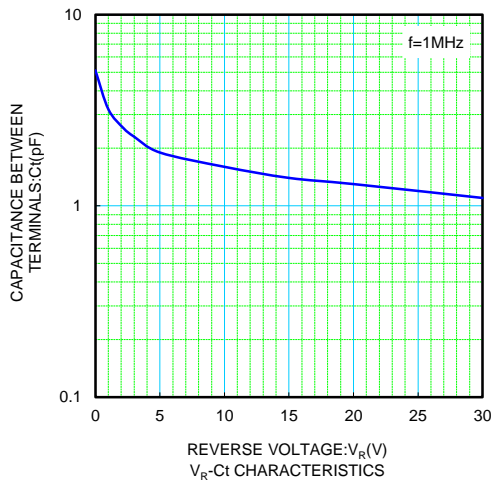
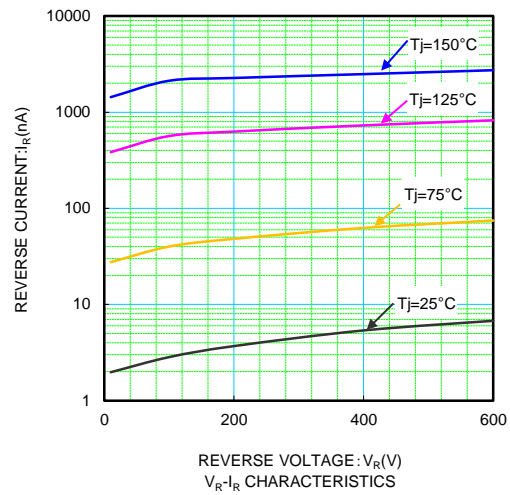
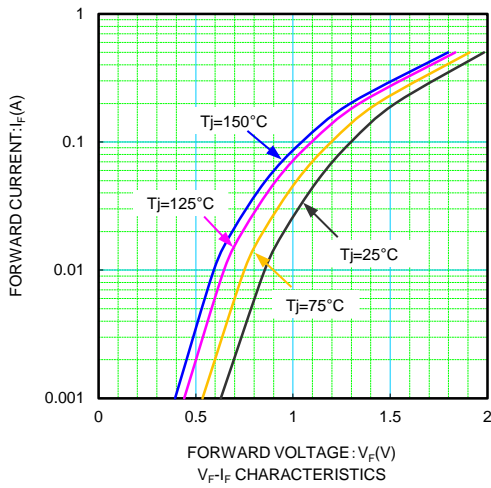


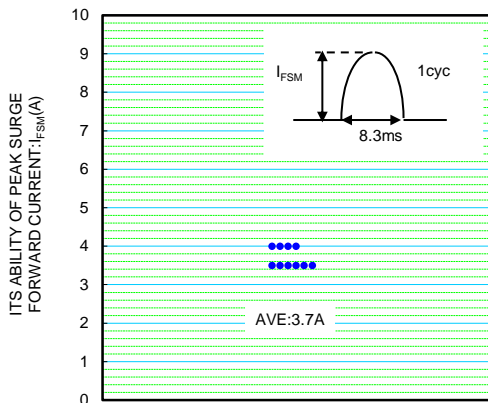
●Absolute maximum ratings (Ta=25°C)

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, $T_j = 25^\circ C$	1	A
Junction temperature	T_j		150	°C
Storage temperature	T_{stg}		-55 to +150	°C

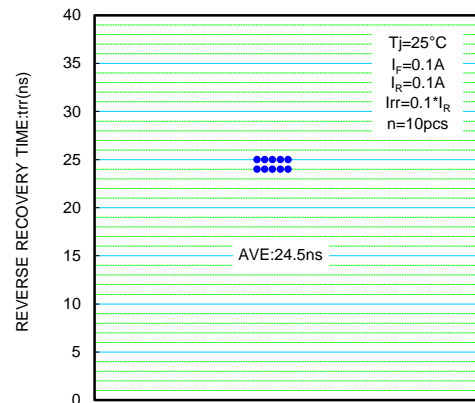
●Electrical characteristics (Tj=25°C)

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

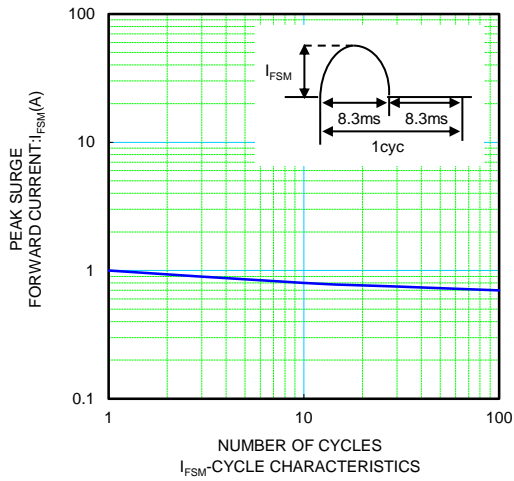




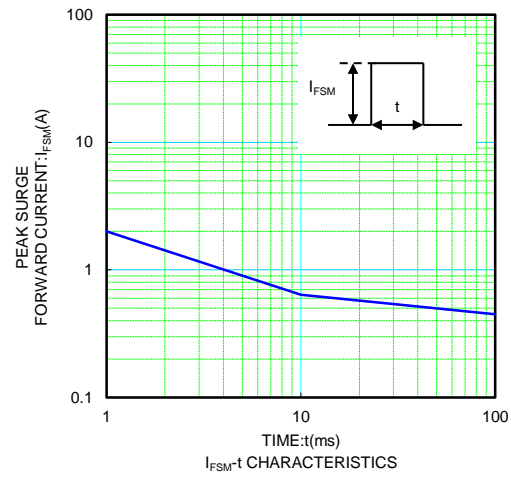
I_{FSM} DISPERSION MAP



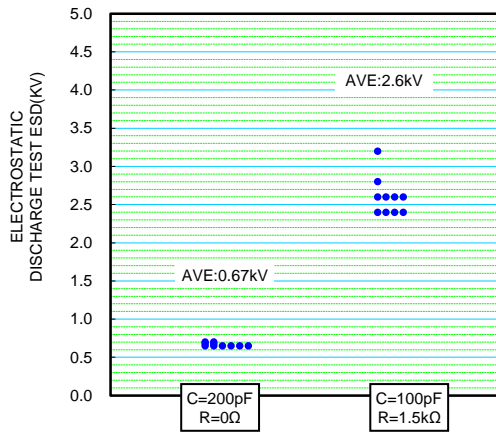
trr DISPERSION MAP



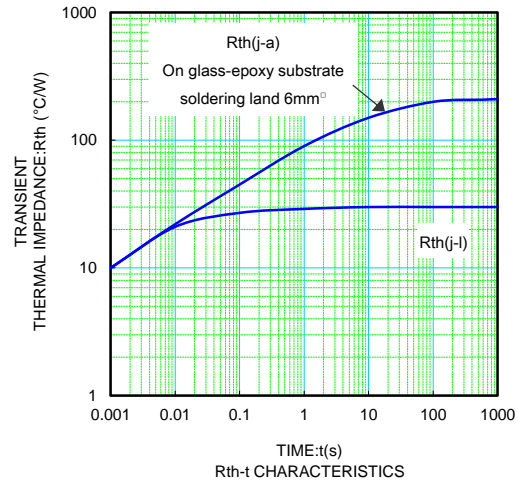
I_{FSM} CYCLE CHARACTERISTICS



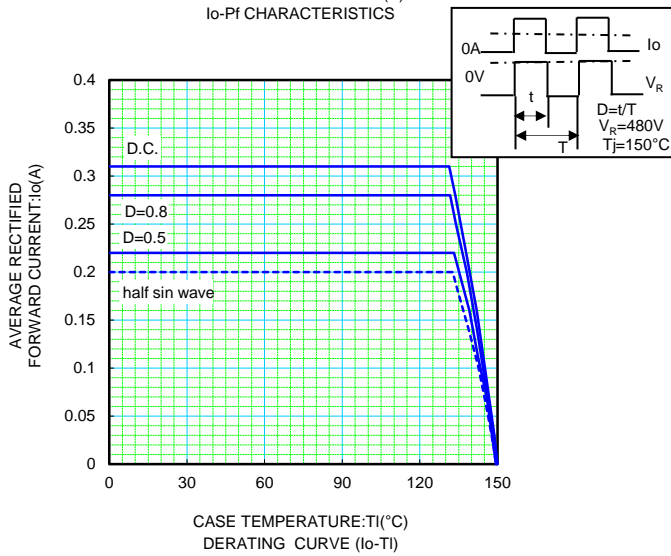
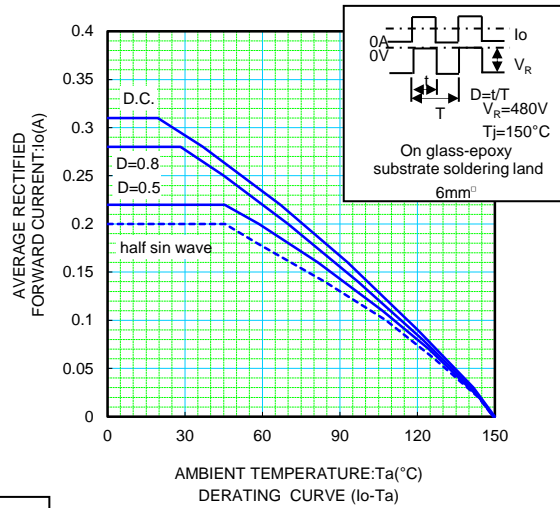
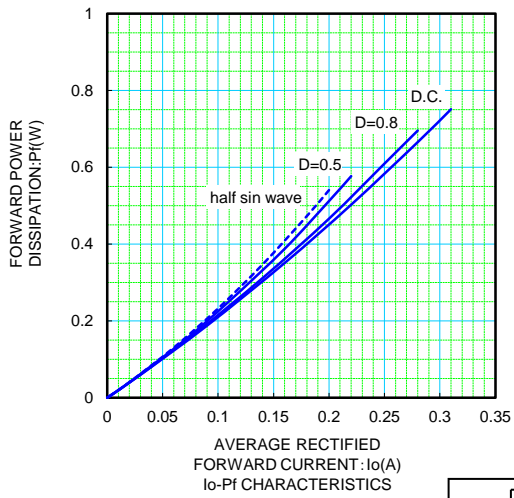
I_{FSM}-t CHARACTERISTICS



ESD DISPERSION MAP



Rth-t CHARACTERISTICS



Notes

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