

Super Fast Recovery Diode

RF05VA2S

●Series

Standard Fast Recovery

●Applications

High Frequency rectification

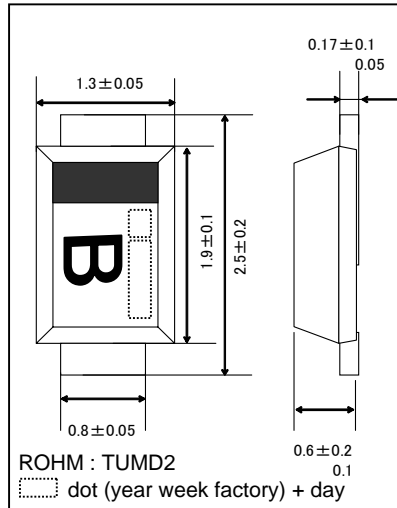
●Features

- 1) Small mold type. (TUMD2)
- 2) high switching speed
- 3) Low forward voltage

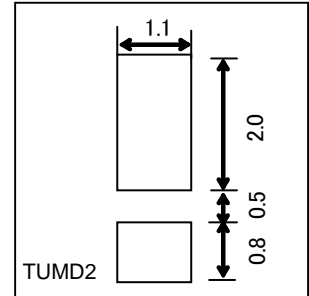
●Construction

Silicon epitaxial planer

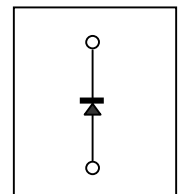
●Dimensions (Unit : mm)



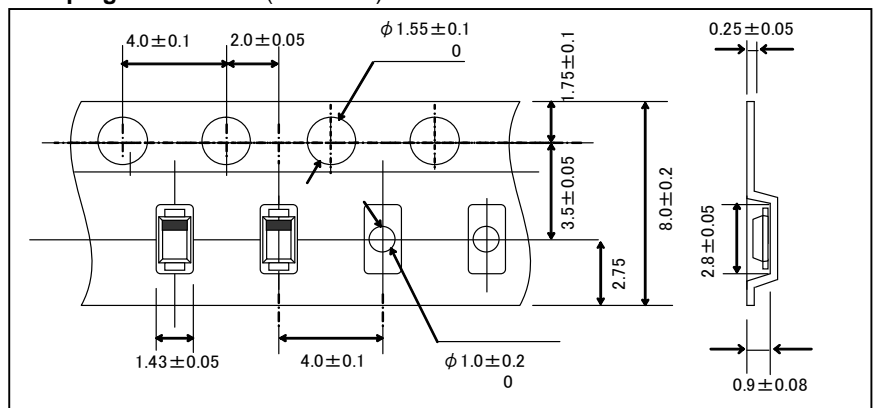
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

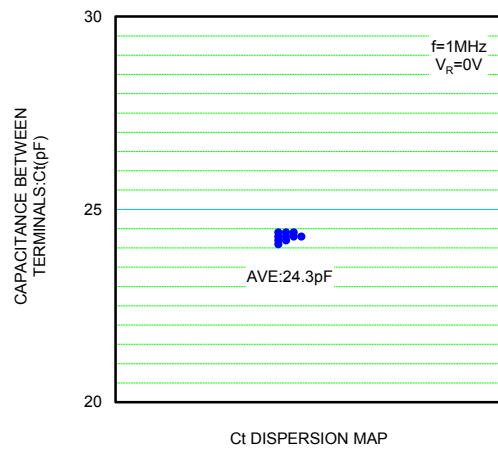
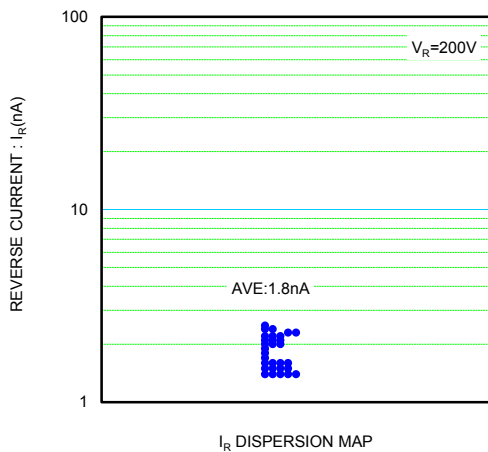
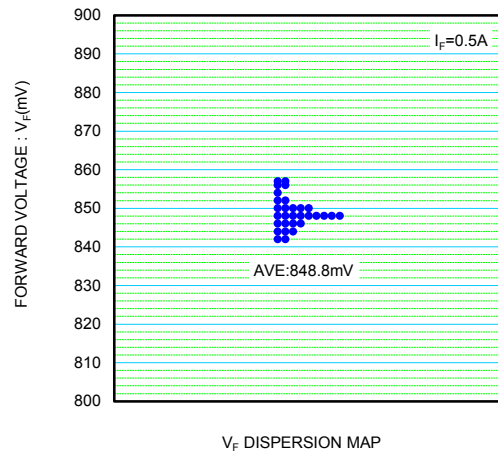
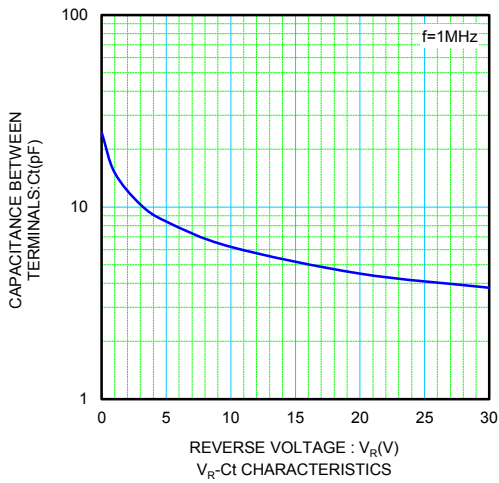
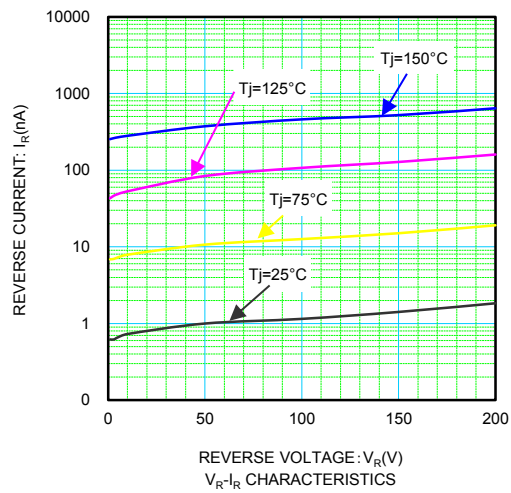
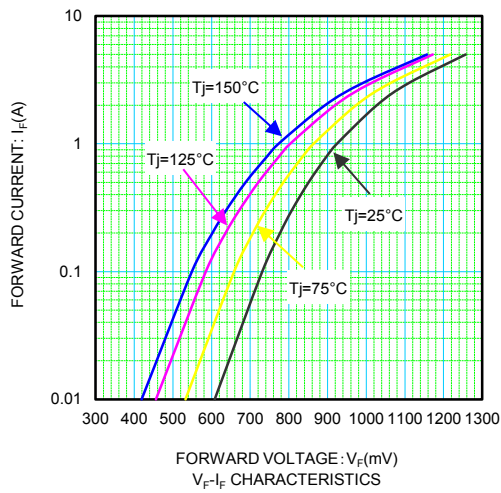


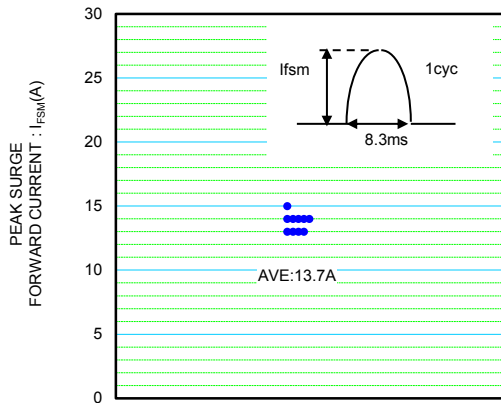
●Absolute maximum ratings (Tl=25°C)

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}		200	V
Reverse voltage	V_R	Direct voltage	200	V
Average rectified forward current	I_o	Glass epoxy substrate mounted 60Hz half sin wave, resistive load	0.5	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j=25^\circ\text{C}$	6	A
Junction temperature	T_j		150	°C
Storage temperature	T_{stg}		-55 to +150	°C

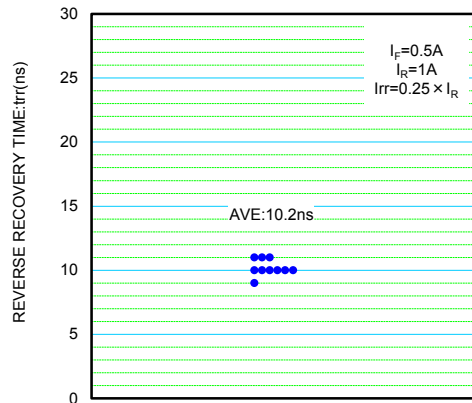
●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=0.5\text{A}$	—	0.85	0.98	V
Reverse current	I_R	$V_R=200\text{V}$	—	0.01	10	μA
Reverse recovery time	t_{rr}	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25 \times I_R$	—	11	25	ns

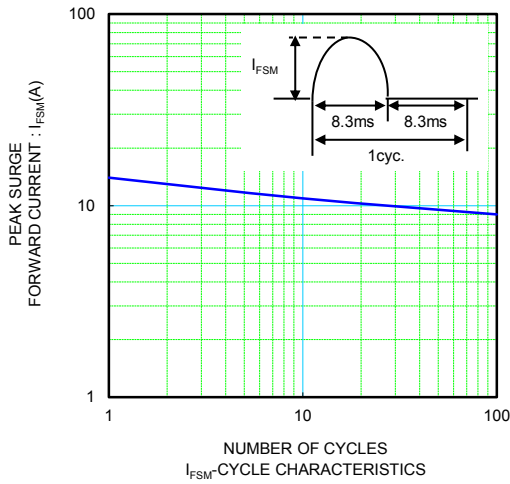




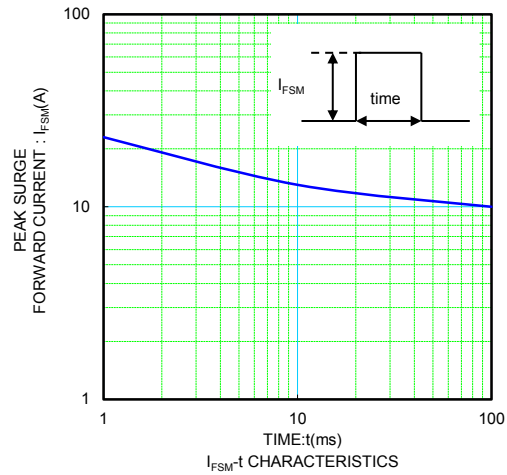
I_{FSM} DISPERSION MAP



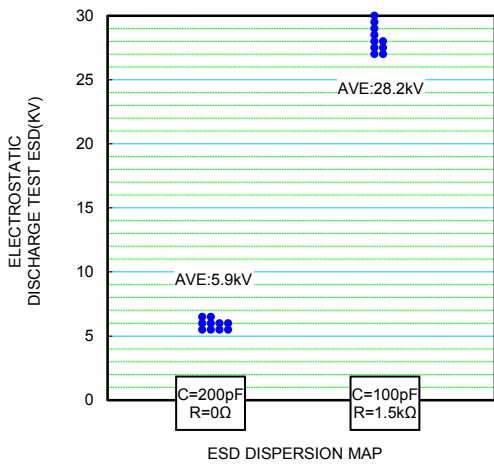
trr DISPERSION MAP



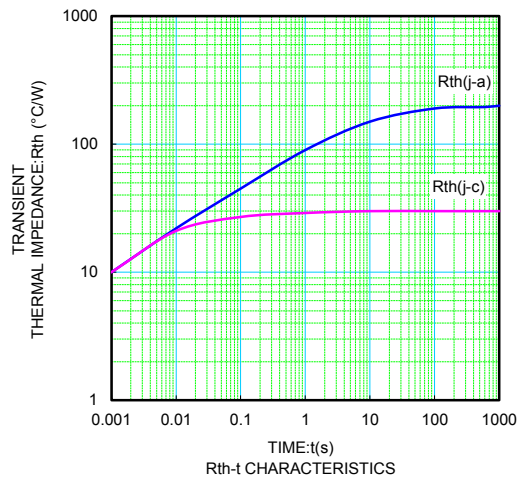
I_{FSM} -CYCLE CHARACTERISTICS



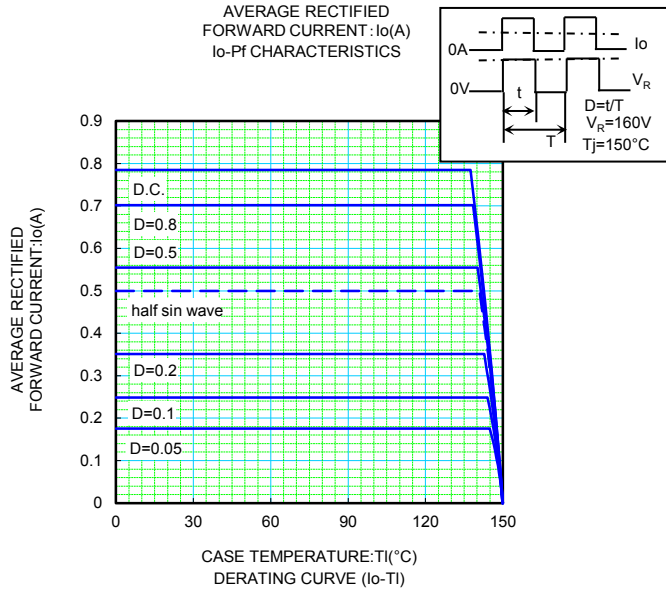
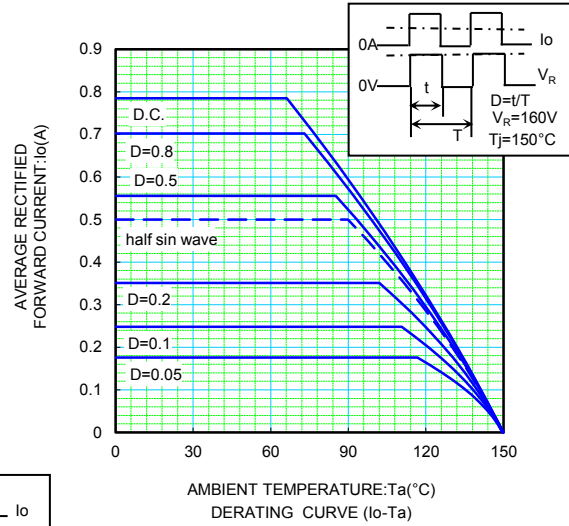
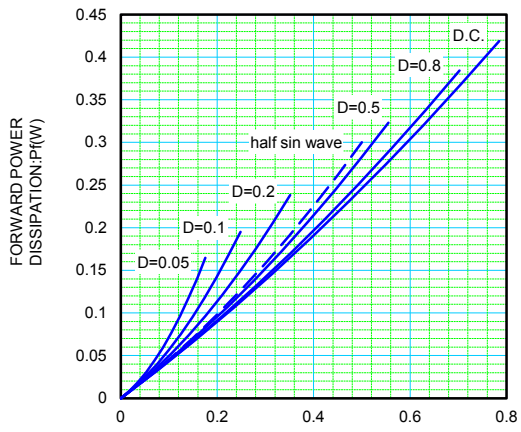
$I_{FSM}t$ CHARACTERISTICS



ESD DISPERSION MAP



$R_{th}t$ CHARACTERISTICS



Notes

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