

# Super Fast Recovery Diode

RF05VA2S

●Series

Standard Fast Recovery

●Applications

High Frequency rectification

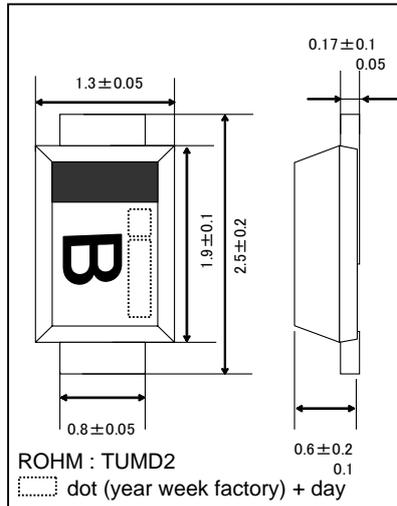
●Features

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

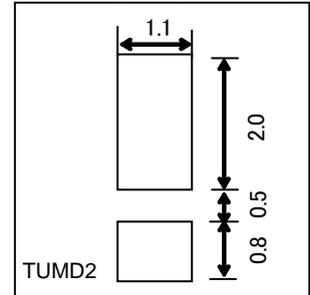
●Construction

Silicon epitaxial planer

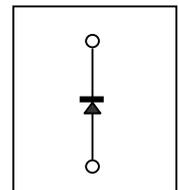
●Dimensions (Unit : mm)



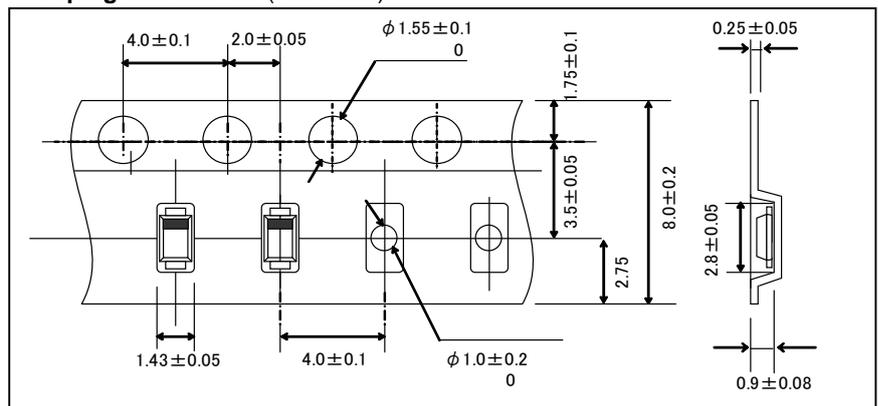
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

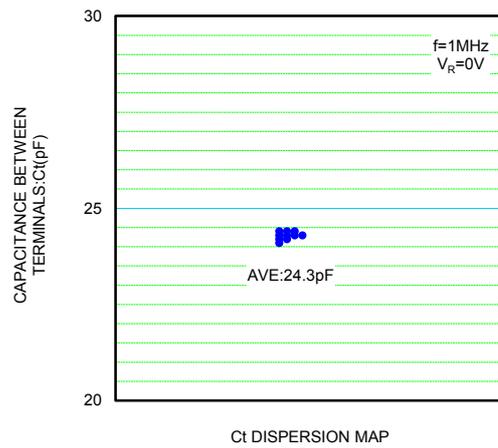
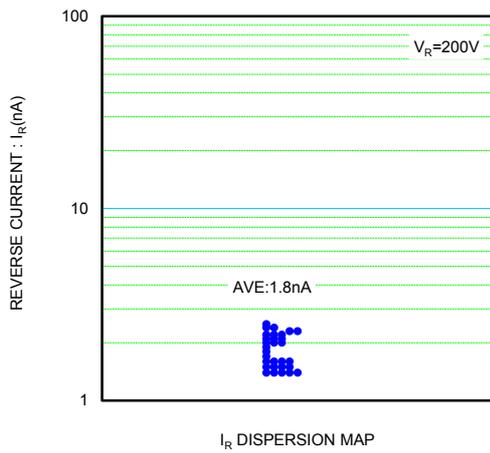
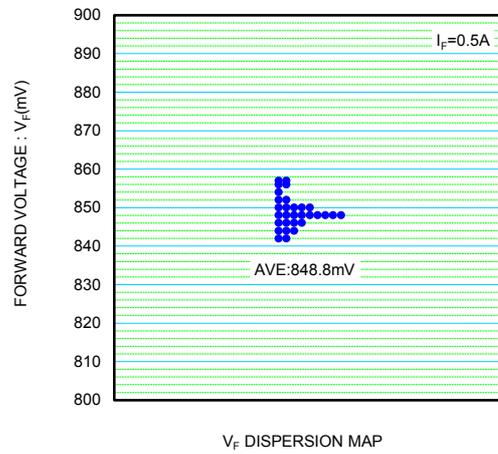
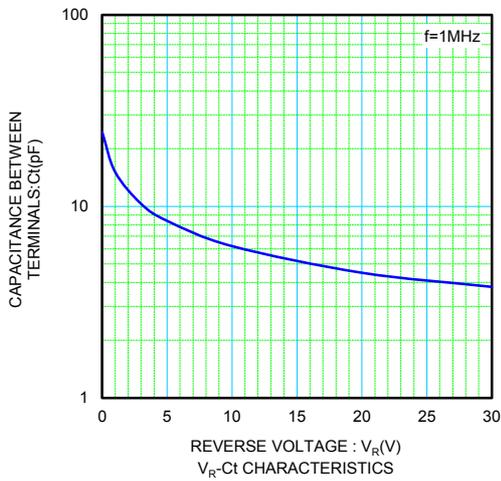
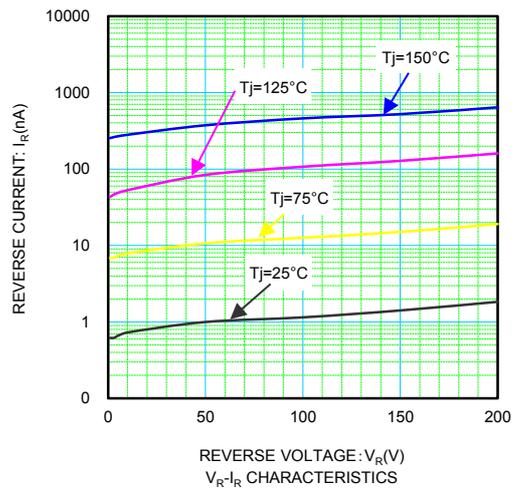
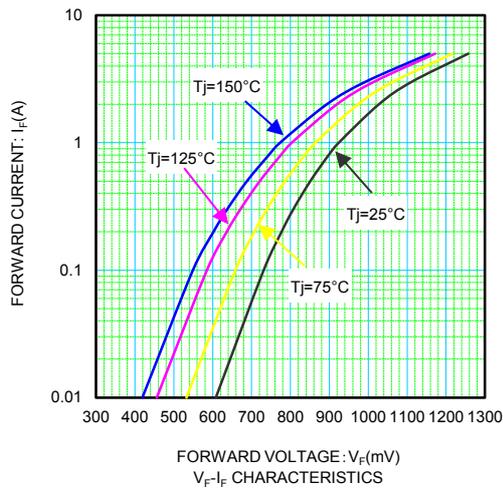


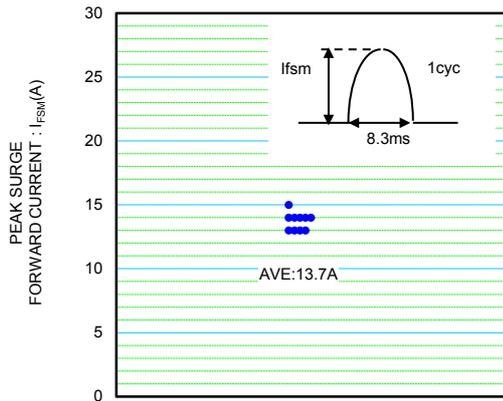
●Absolute maximum ratings (Tl=25°C)

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

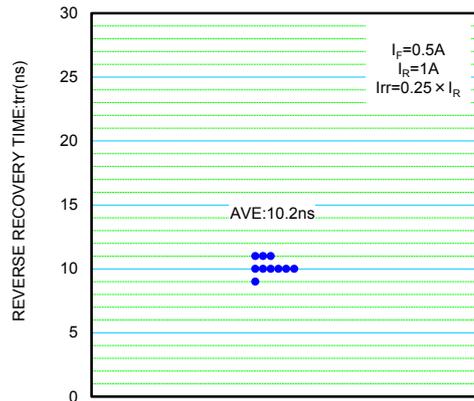
●Electrical characteristics (Tj=25°C)

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

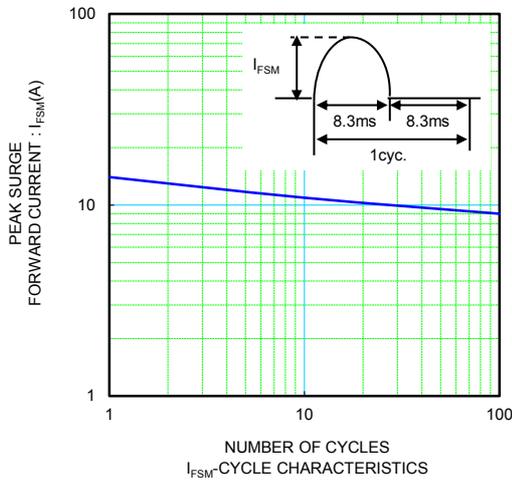




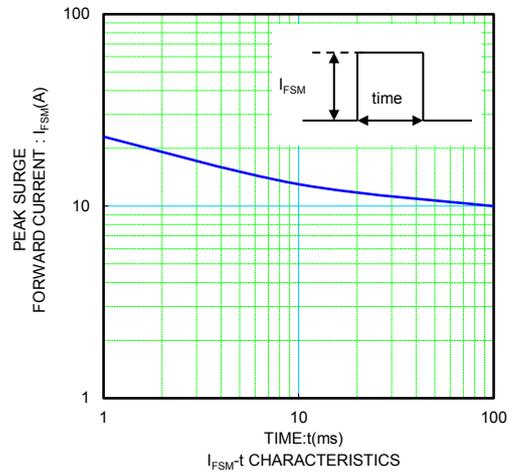
$I_{FSM}$  DISPERION MAP



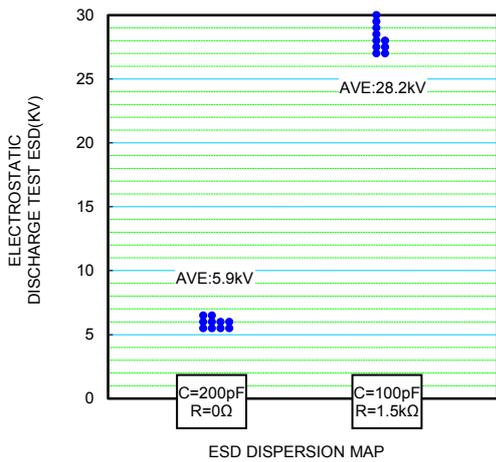
trr DISPERION MAP



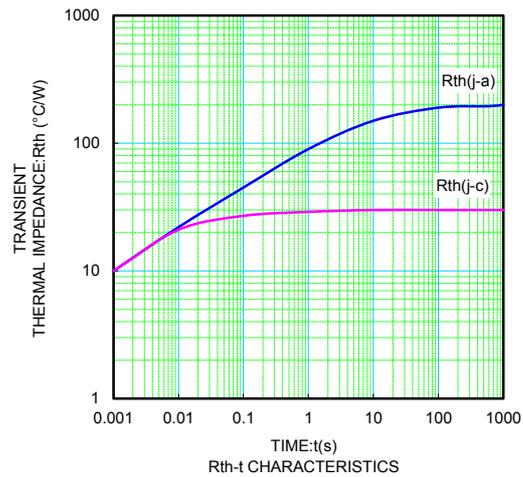
$I_{FSM}$ -CYCLE CHARACTERISTICS



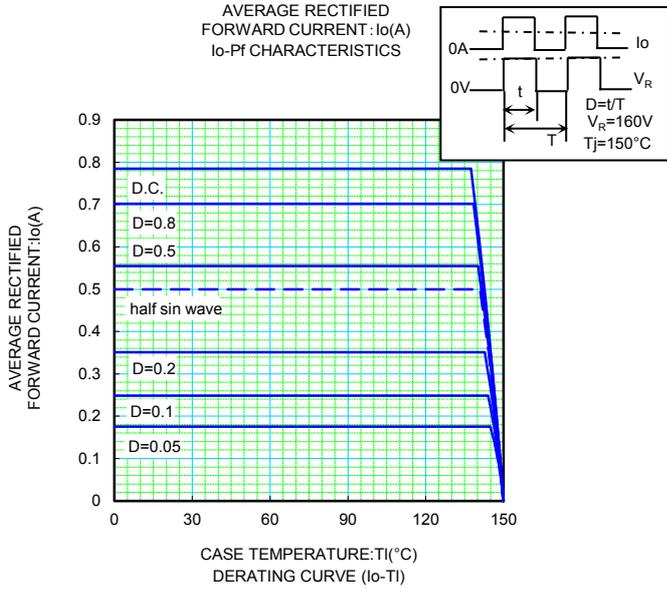
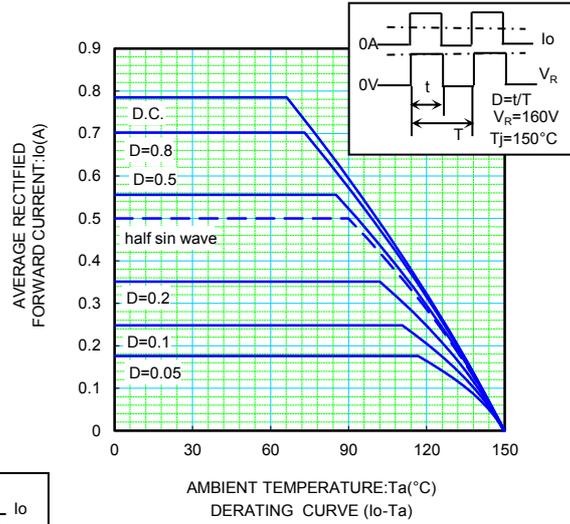
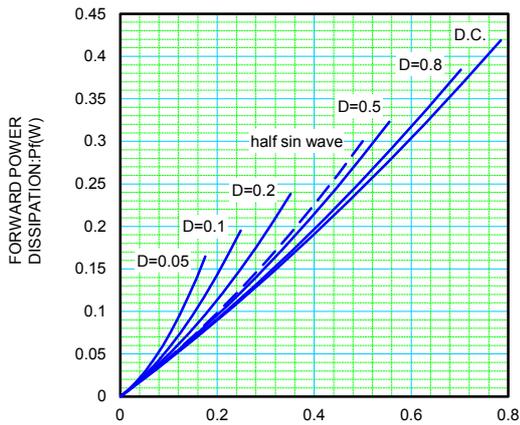
$I_{FSM} \cdot t$  CHARACTERISTICS



ESD DISPERION MAP



$R_{th} \cdot t$  CHARACTERISTICS



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