

Rectifier Diode

RRE07VS4S

● **Applications**

General Rectification

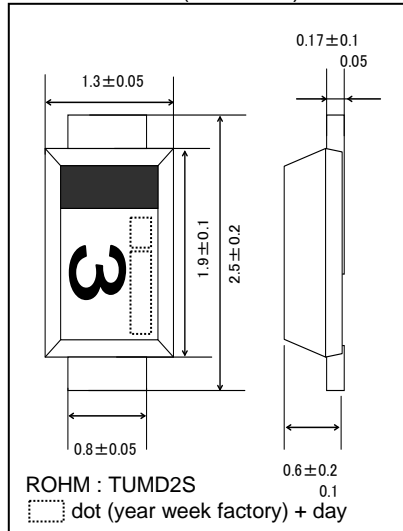
● **Features**

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

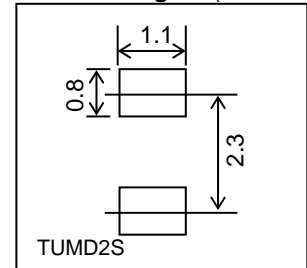
● **Construction**

Silicon epitaxial planar

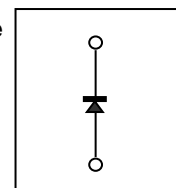
● **Dimensions (Unit : mm)**



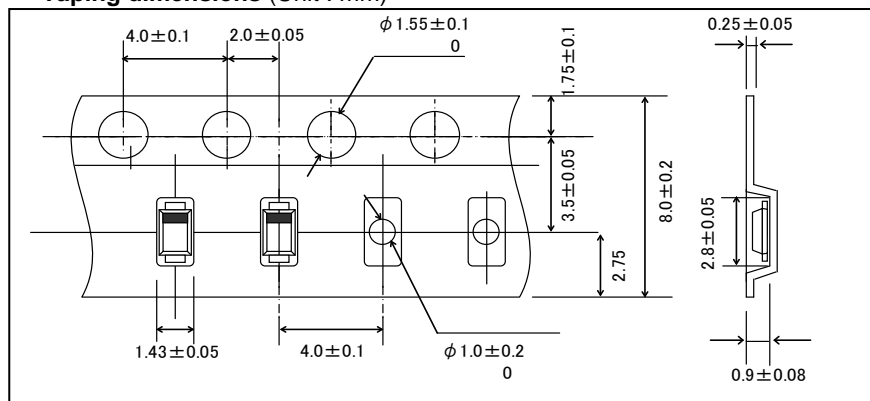
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**

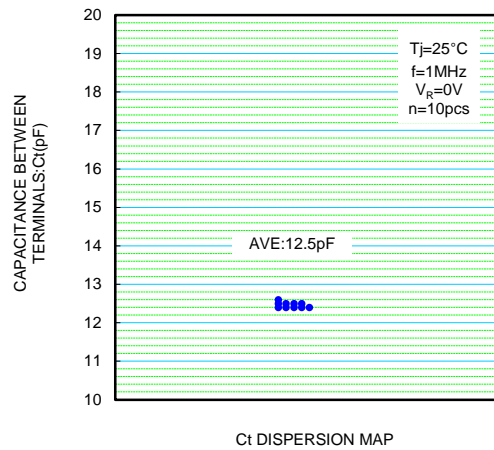
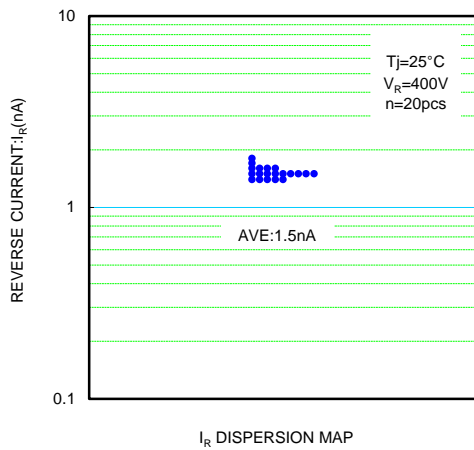
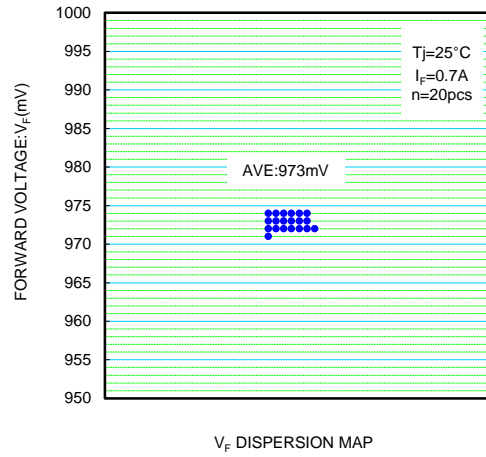
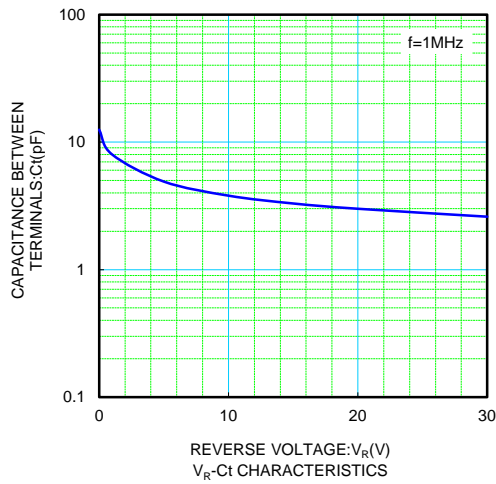
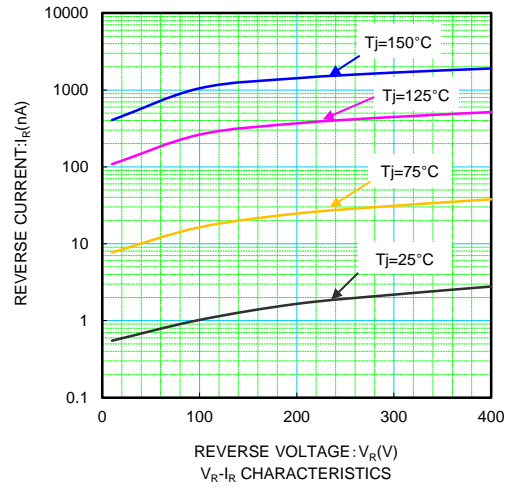
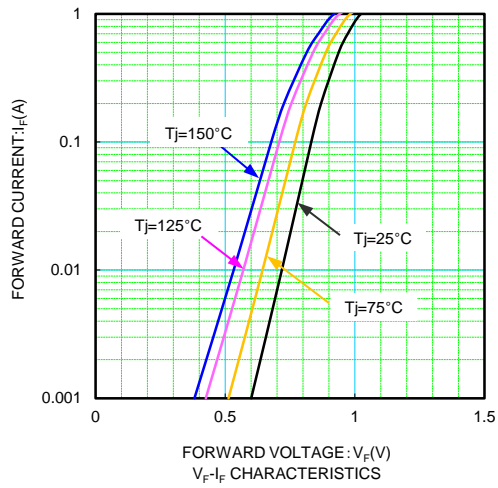


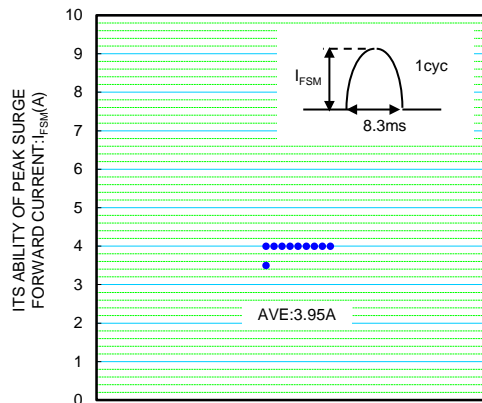
● **Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	$D \leq 0.5$	400	V
Reverse voltage	V_R	Direct voltage	400	V
Average rectified forward current	I_o	Glass epoxy substrate mounted R-road, 60Hz half sin wave $T_c=118^\circ\text{C}$	0.7	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	$^\circ\text{C}$

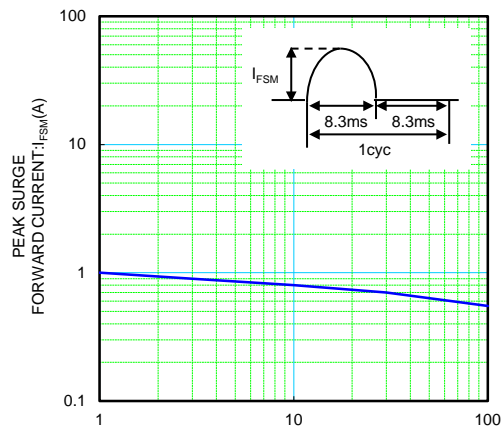
● **Electrical characteristics (Tj=25°C)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=0.7\text{A}$	—	0.97	1.1	V
Reverse current	I_R	$V_R=400\text{V}$	—	0.01	1	μA

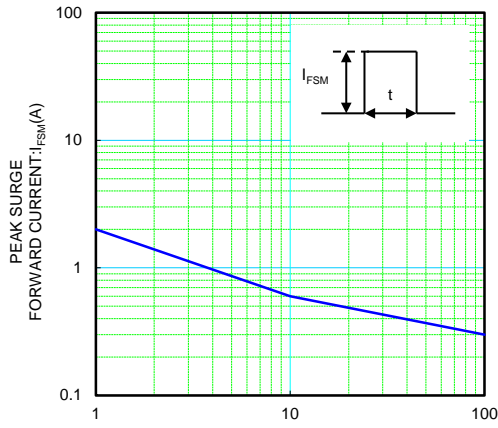




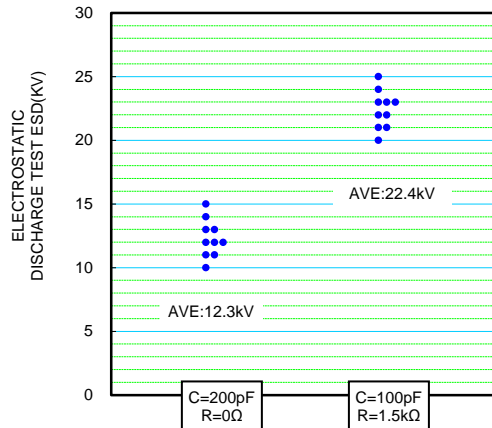
I_{FSM} DISPERSION MAP



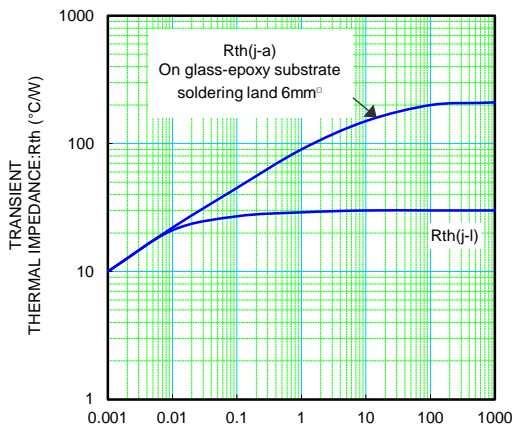
I_{FSM}-CYCLE CHARACTERISTICS



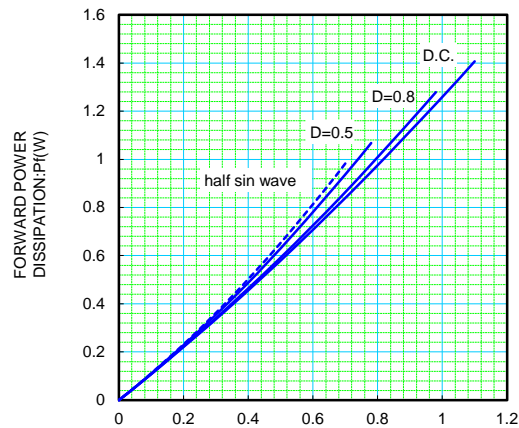
I_{FSM}-t CHARACTERISTICS



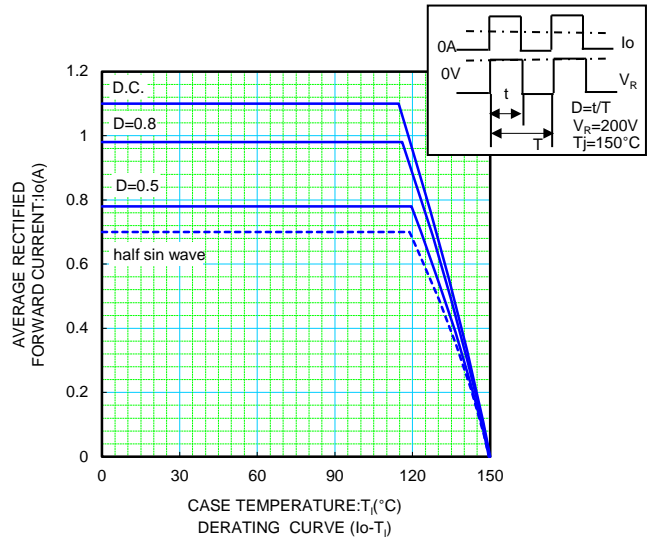
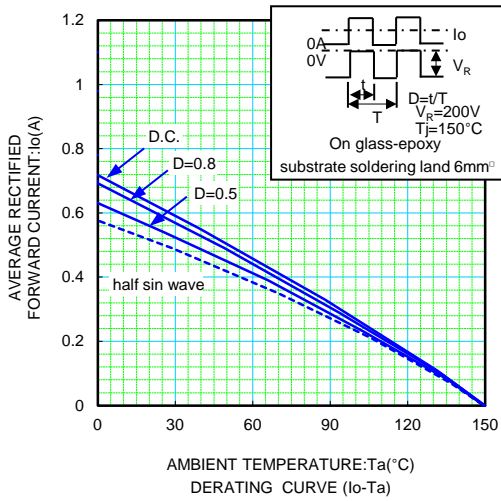
ESD DISPERSION MAP



R_{th}-t CHARACTERISTICS



I_o-P_F CHARACTERISTICS



Notes

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