

Rectifier Diode

RRE02VS6S

● **Applications**

General Rectification

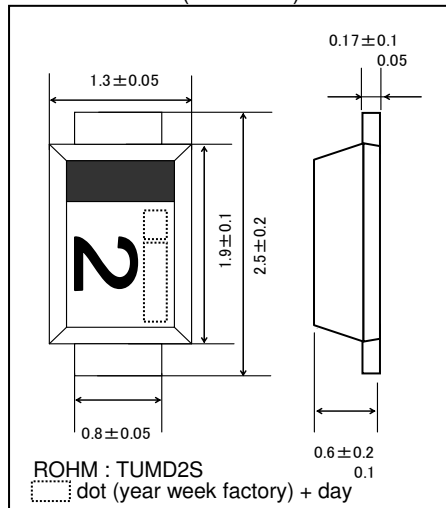
● **Features**

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

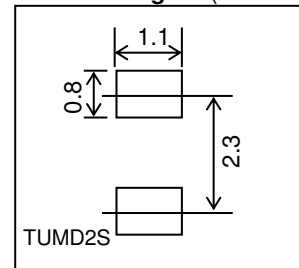
● **Construction**

Silicon epitaxial planer

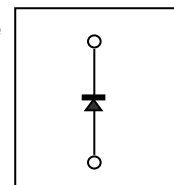
● **Dimensions (Unit : mm)**



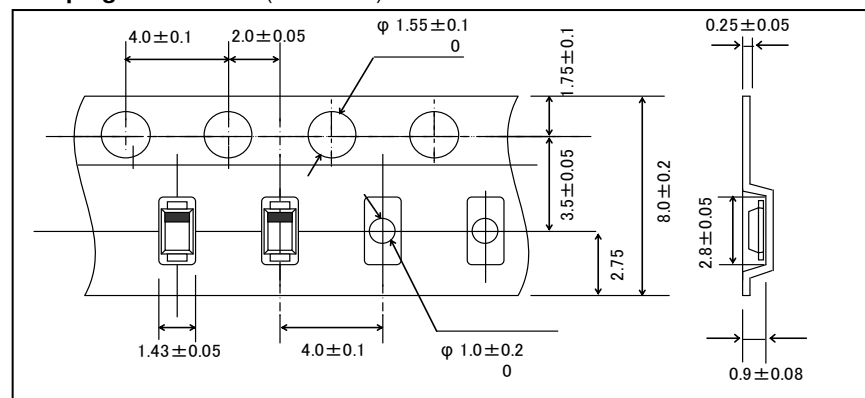
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping dimensions (Unit : mm)**

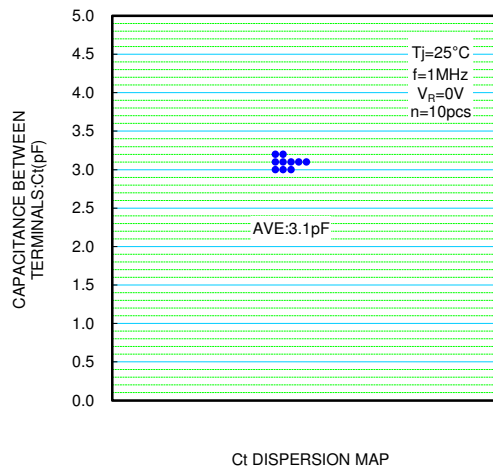
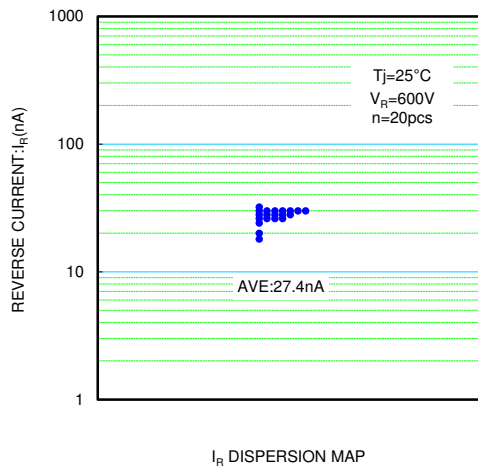
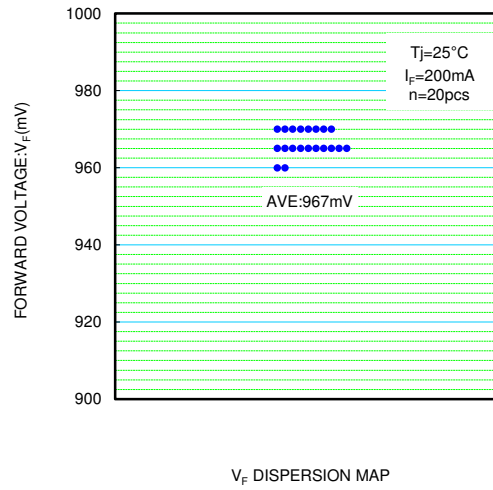
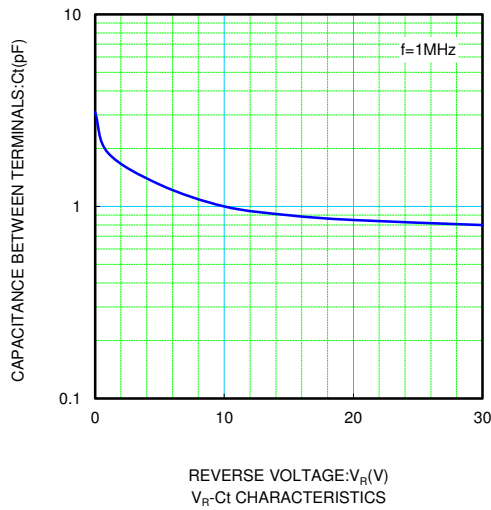
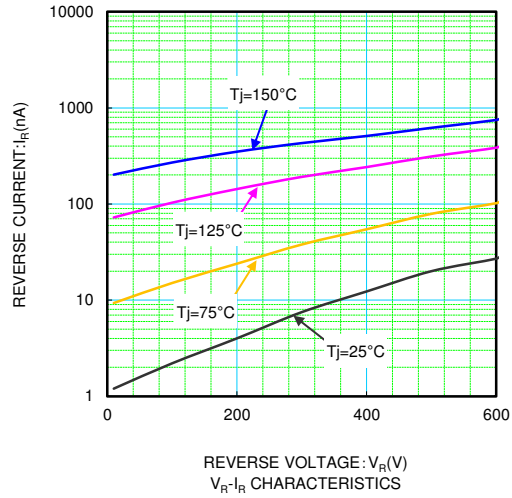
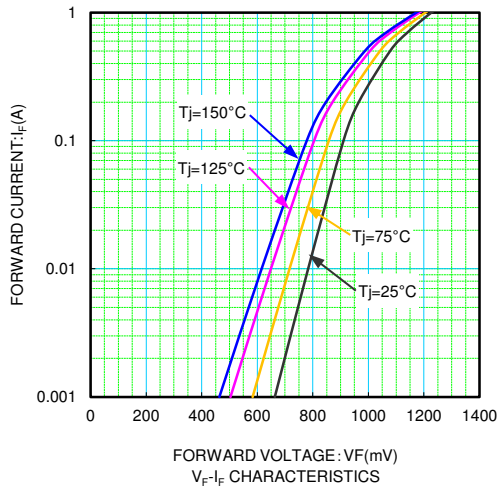


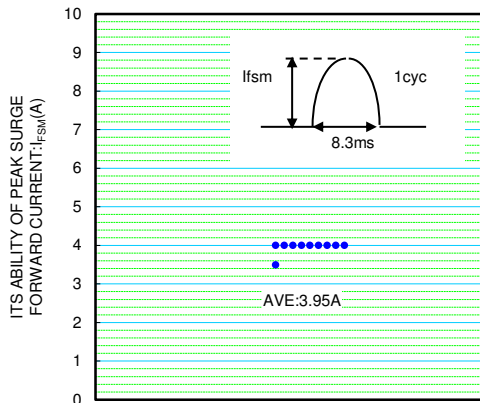
● **Absolute maximum ratings (Ta=25°C)**

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

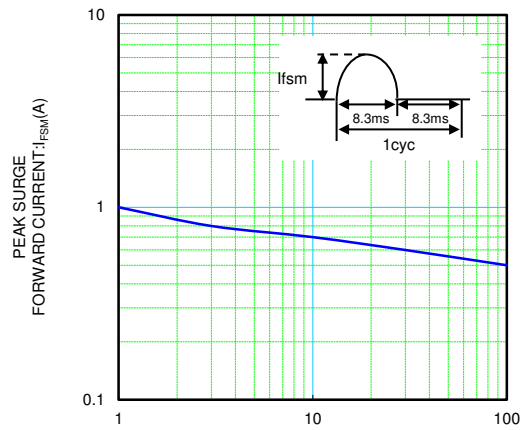
● **Electrical characteristics (Tj=25°C)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F = 0.2A$	—	0.95	1.1	V
Reverse current	I_R	$V_R = 600V$	—	0.01	1	μA

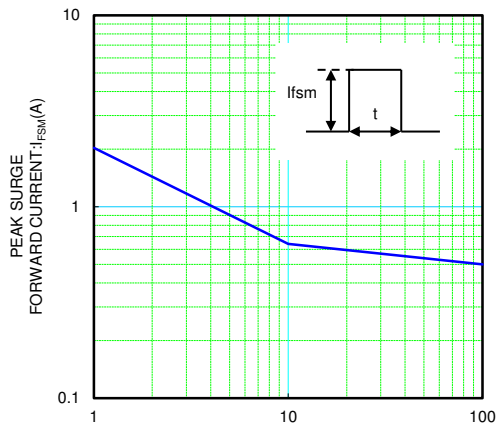




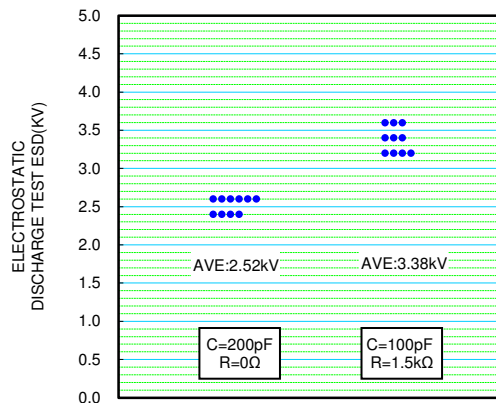
I_{FSM} DISPERSION MAP



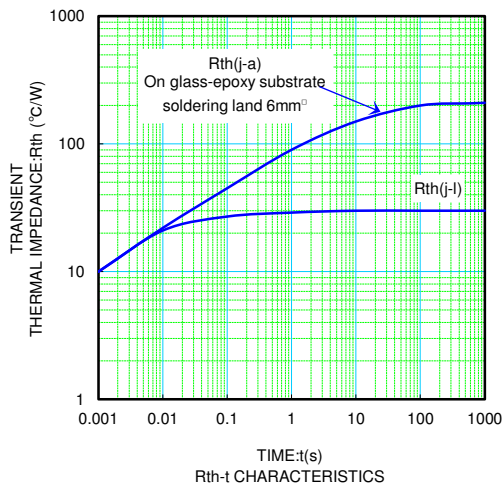
I_{FSM} -CYCLE CHARACTERISTICS



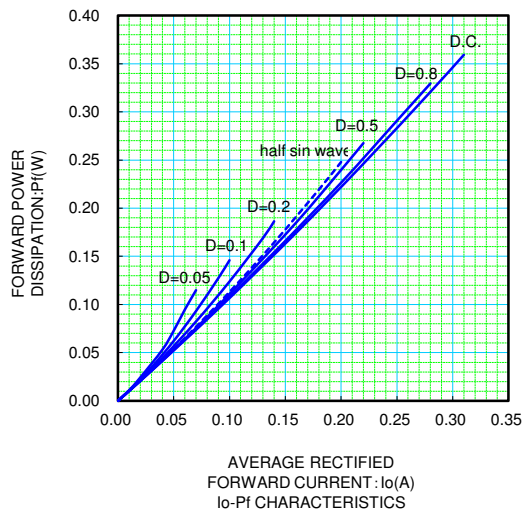
I_{FSM} -t CHARACTERISTICS



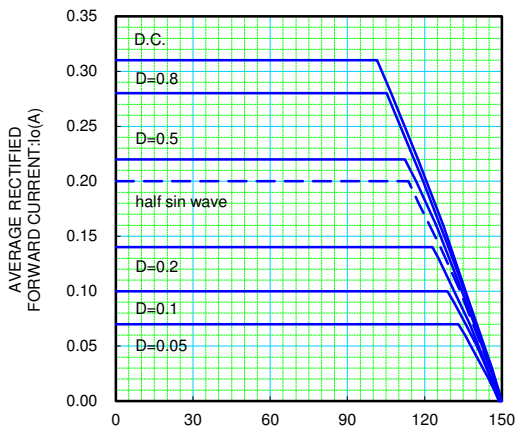
ESD DISPERSION MAP



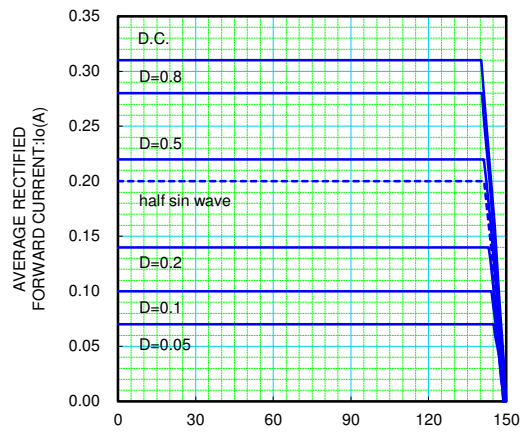
R_{th} -t CHARACTERISTICS



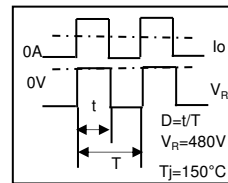
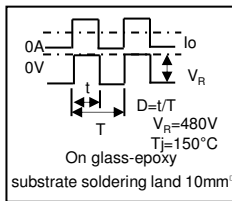
AVERAGE RECTIFIED FORWARD CURRENT : I_o (A) I_o -Pf CHARACTERISTICS



AMBIENT TEMPERATURE: T_a (°C)
Derating Curve (I_o - T_a)



CASE TEMPERATURE: T_l (°C)
Derating Curve (I_o - T_l)



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