Schottky Barrier Diode

RSX201VAM30 Data Sheet

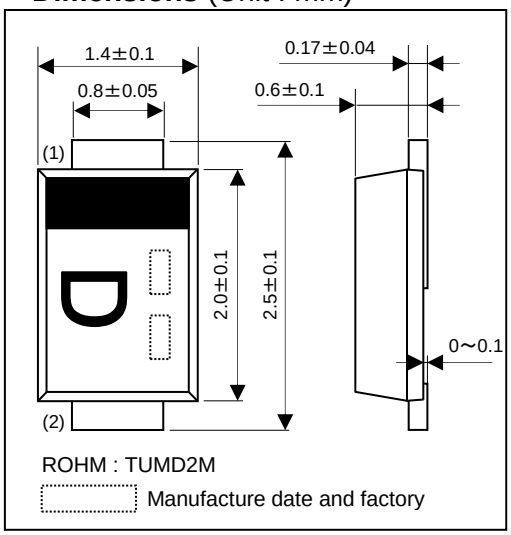
●Application

General rectification

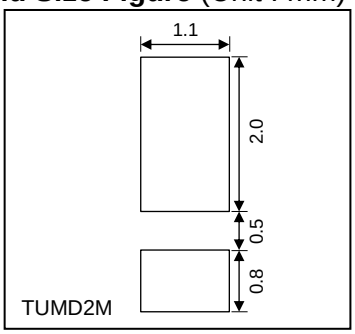
●Features

1) Small mold type (TUMD2M)
2) High reliability
3) Low V_F and low I_R

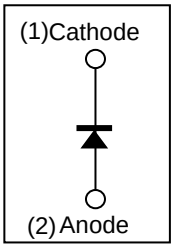
●Dimensions (Unit : mm)



●Land Size Figure (Unit : mm)



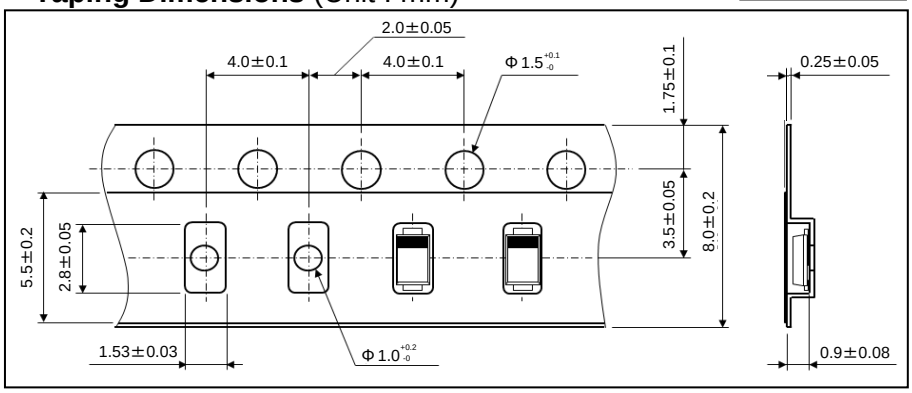
●Structure



●Construction

Silicon epitaxial planar type

●Taping Dimensions (Unit : mm)



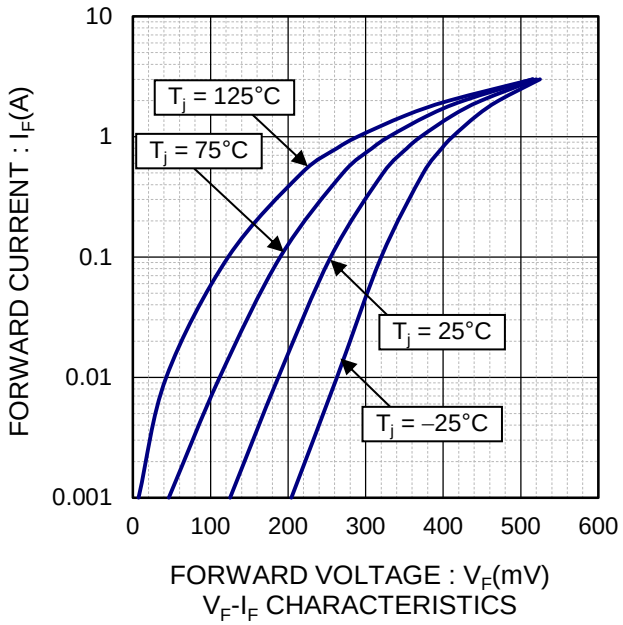
●Absolute Maximum Ratings (T_c= 25°C)

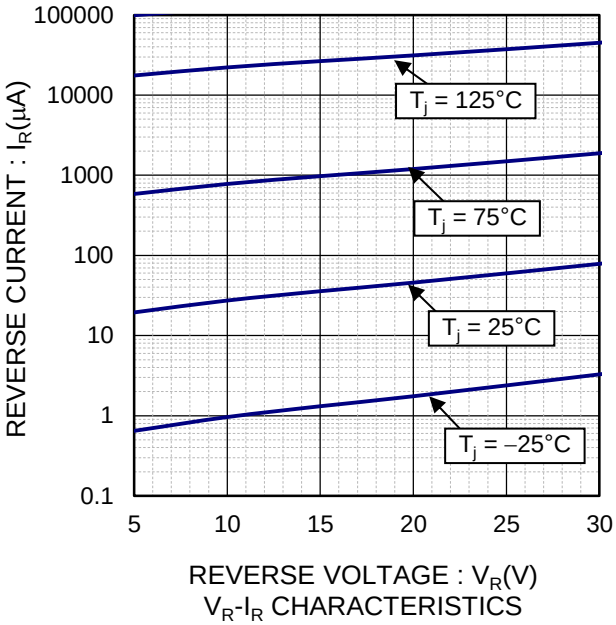
Parameter	Symbol	Conditions	Limits	Unit
Repetitive Peak Reverse Voltage	V_{RM}	Duty≦0.5	30	V
Reverse Voltage	V_R	Direct Reverse Voltage	30	V
Average Forward Rectified Current	I_o	Alumina board mounted, 60Hz half sin Wave, resistive load, T_c=105°C Max.	1.5	A
Average Forward Rectified Current	I_o	Glass epoxy board mounted, 60Hz half sin Wave, resistive load, T_c=90°C Max.	1.0	A
Non-repetitive Forward Current Surge Peak	I_{FSM}	60Hz half sin wave, Non-repetitive at T_a=25°C, 1cycle	8	A
Operating Junction Temperature	T_j	-	125	°C
Storage Temperature	T_{stg}	-	−40 to +125	°C

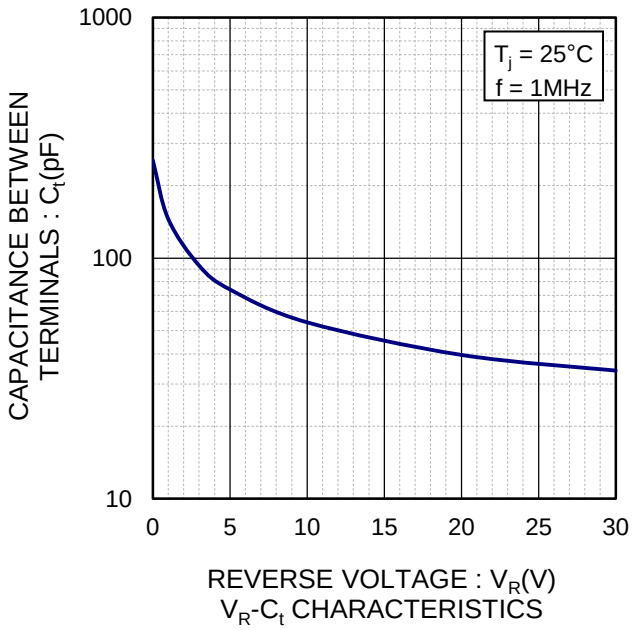
●Electrical Characteristics (T_j = 25°C)

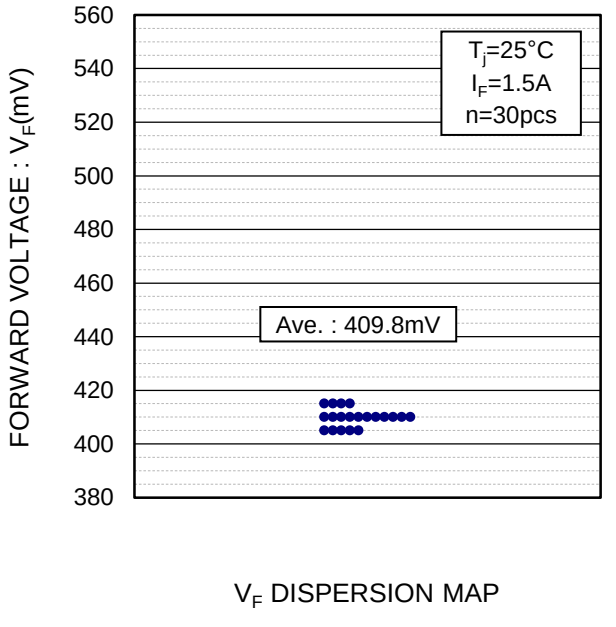
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_{F1}	I_F=1.0A	-	0.36	0.42	V
	V_{F2}	I_F=1.5A	-	0.40	0.46	V
Reverse Current	I_{R1}	V_R=5V	-	15	60	μA
	I_{R2}	V_R=30V	-	70	300	μA

●Electrical Characteristic Curves









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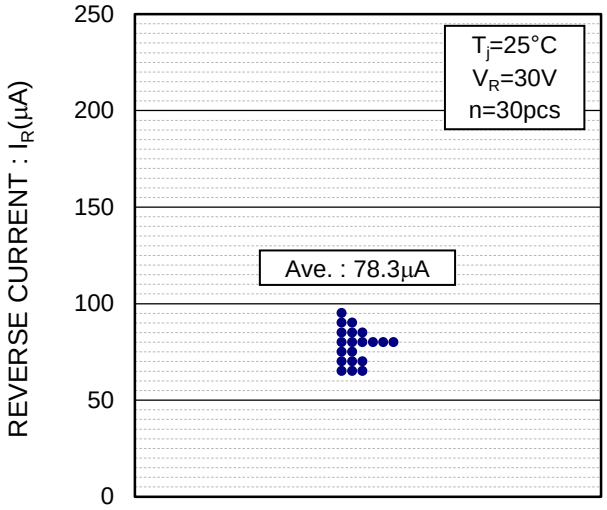
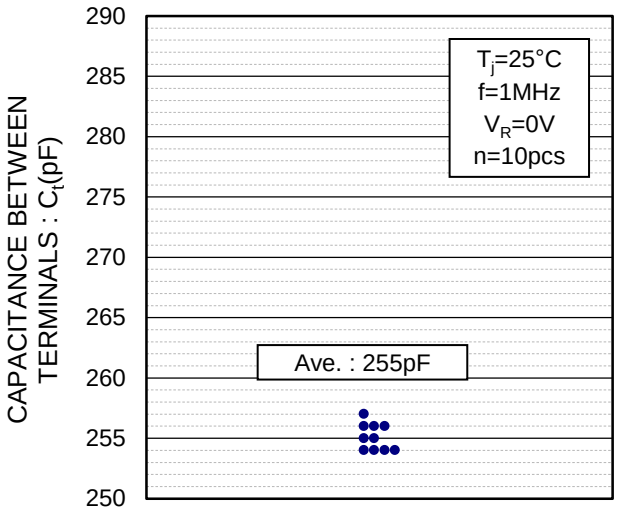
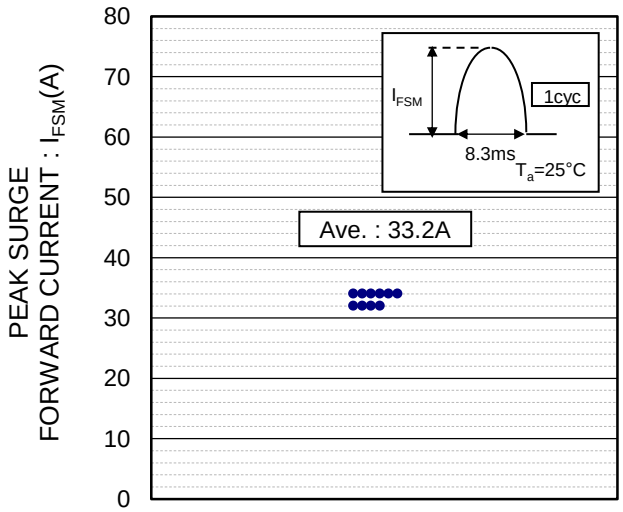


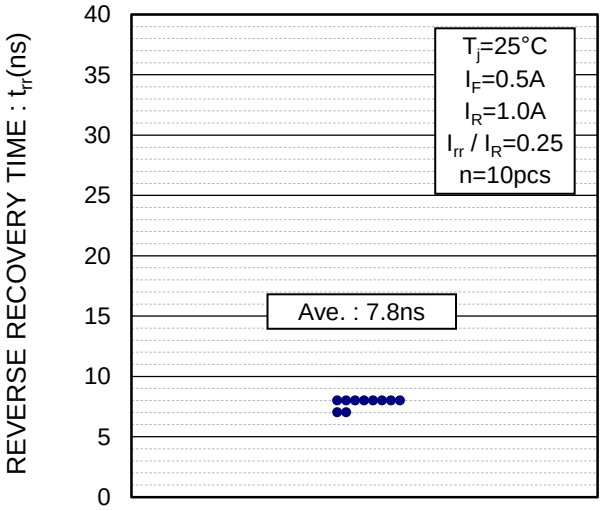
I_R DISPERSION MAP



C_t DISPERSION MAP

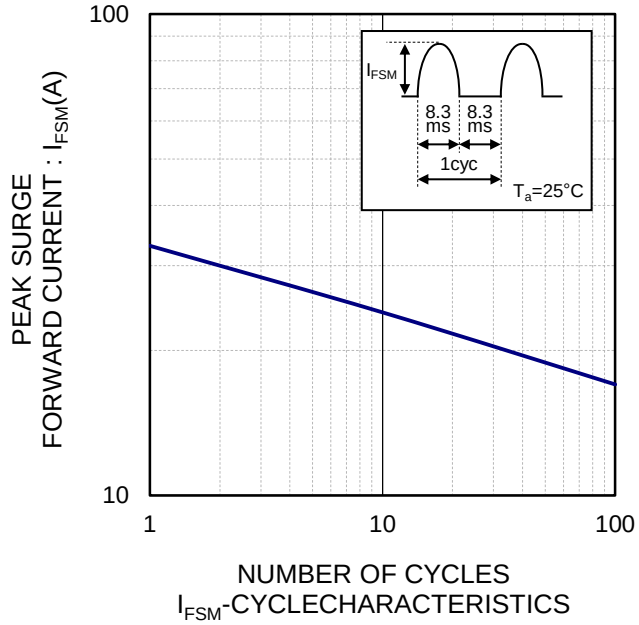


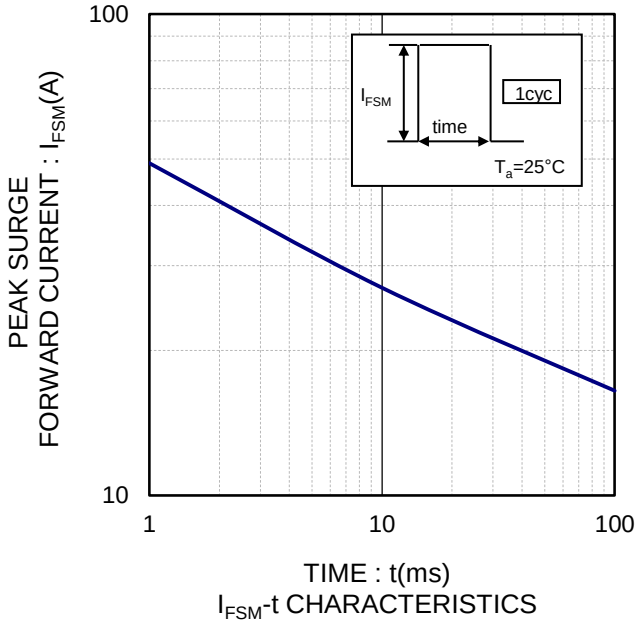
I_{FSM} DISPERSION MAP

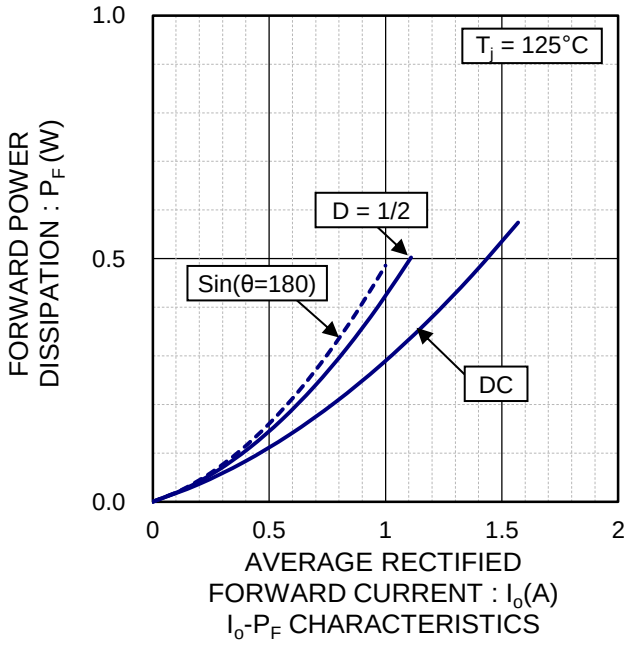


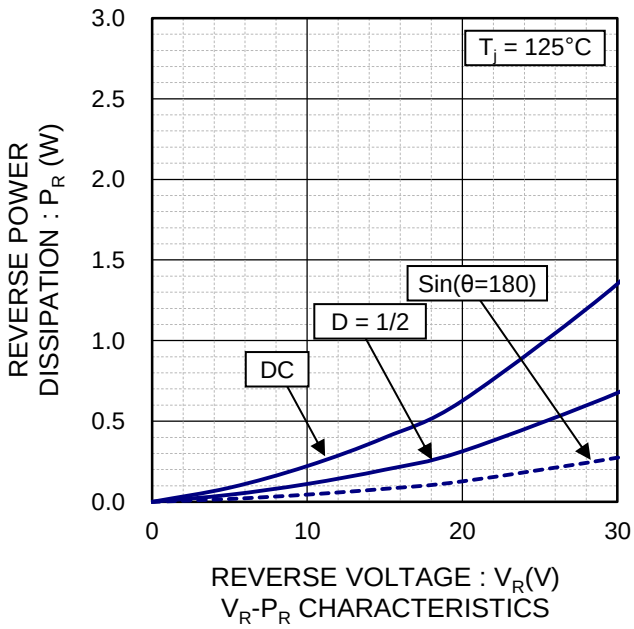
t_{rr} DISPERSION MAP

●Electrical Characteristic Curves









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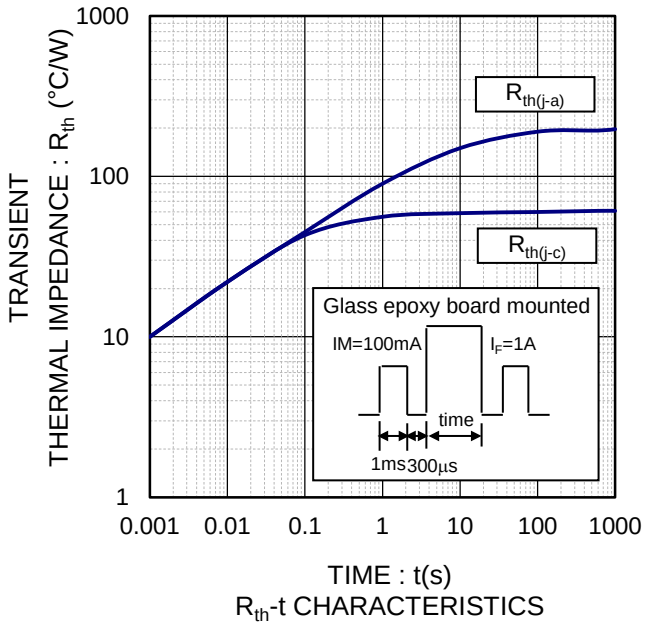
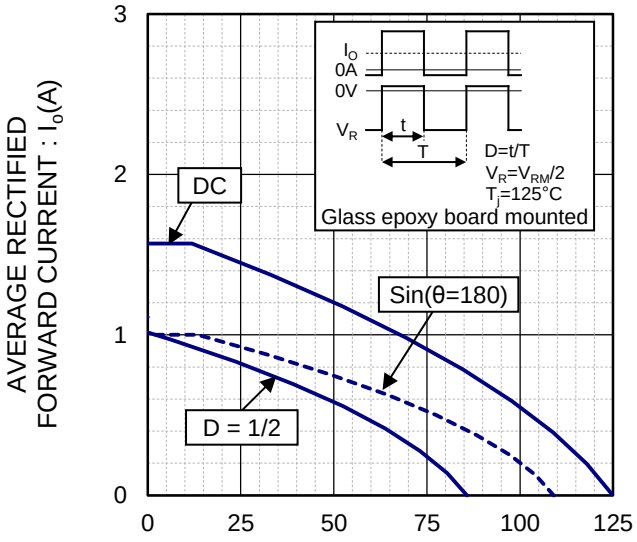
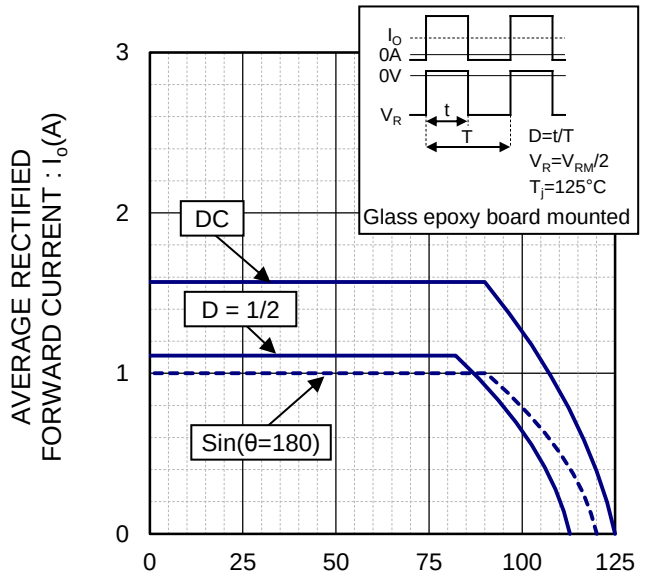


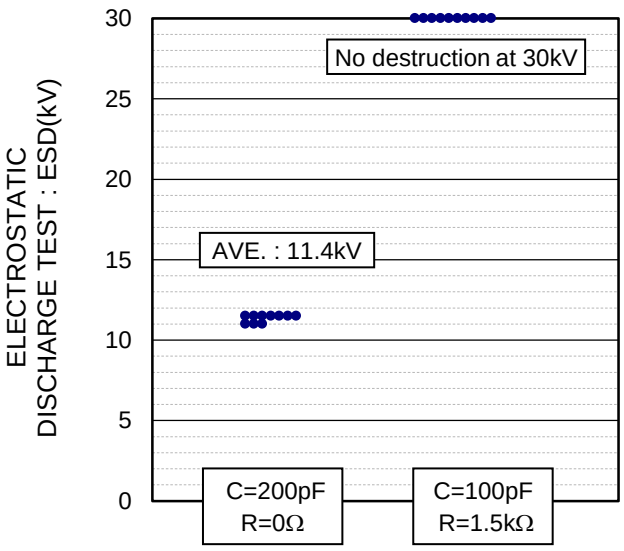
R_{th}-t CHARACTERISTICS



DERATING CURVE (I_o-T_a)



DERATING CURVE (I_o-T_c)



ESD DISPERSION MAP

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