Schottky Barrier Diode

RB161MM-20

Data Sheet

●Application

General rectification

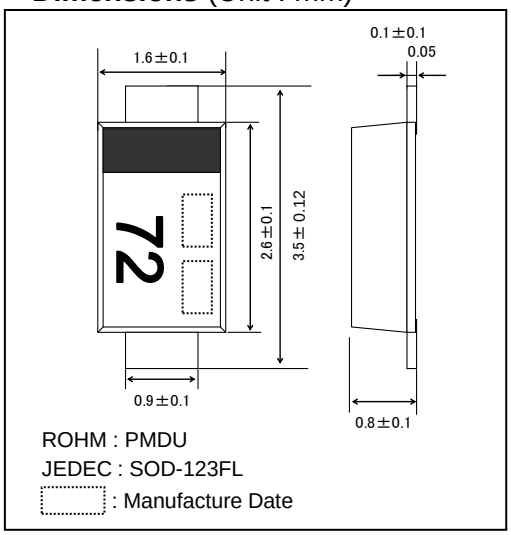
●Features

1) Small power mold type (PMDU)
2) High reliability
3) Ultra low V_F

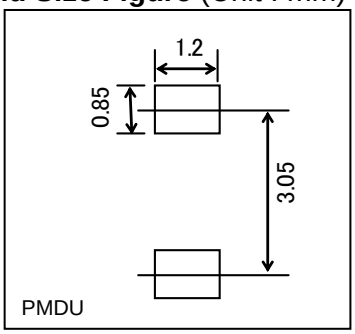
●Construction

Silicon epitaxial planar type

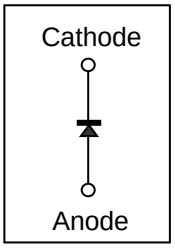
●Dimensions (Unit : mm)



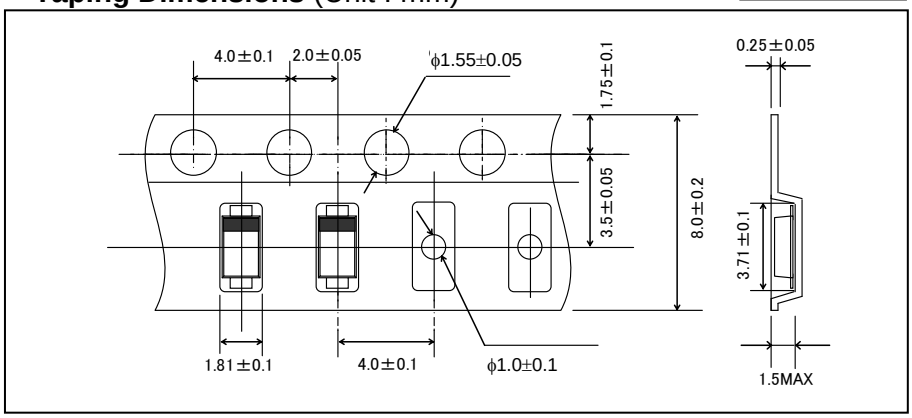
●Land Size Figure (Unit : mm)



●Structure



●Taping Dimensions (Unit : mm)



●Absolute Maximum Ratings (T_c= 25°C)

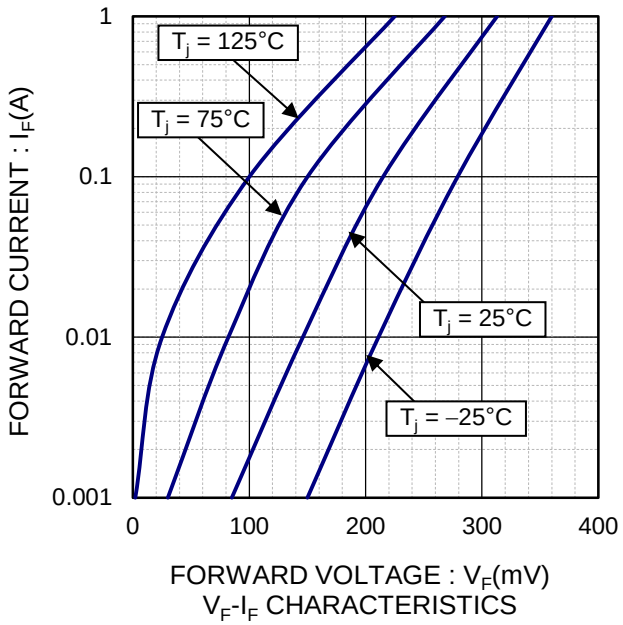
Parameter	Symbol	Conditions	Limits	Unit
Repetitive Peak Reverse Voltage	V_{RM}	Duty≦0.5	25	V
Reverse Voltage	V_R	Direct Reverse Voltage	20	V
Average Forward Rectified Current	I_o	Glass epoxi mounted, 60Hz half sin Wave, resistive load	1	A
Non-repetitive Forward Current Surge Peak	I_{FSM}	60Hz half sin wave, Non-repetitive at T_a=25°C	30	A
Operating Junction Temperature	T_j	-	125	°C
Storage Temperature	T_{stg}	-	−40 to +125	°C

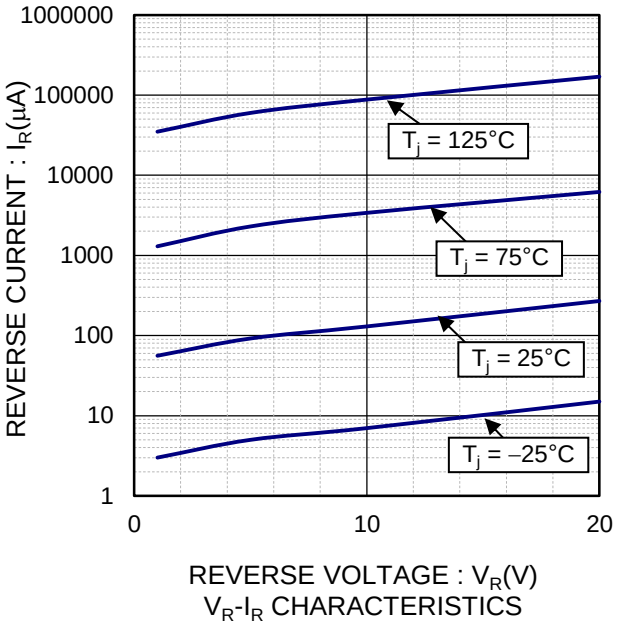
●Electrical Characteristics (T_j = 25°C)

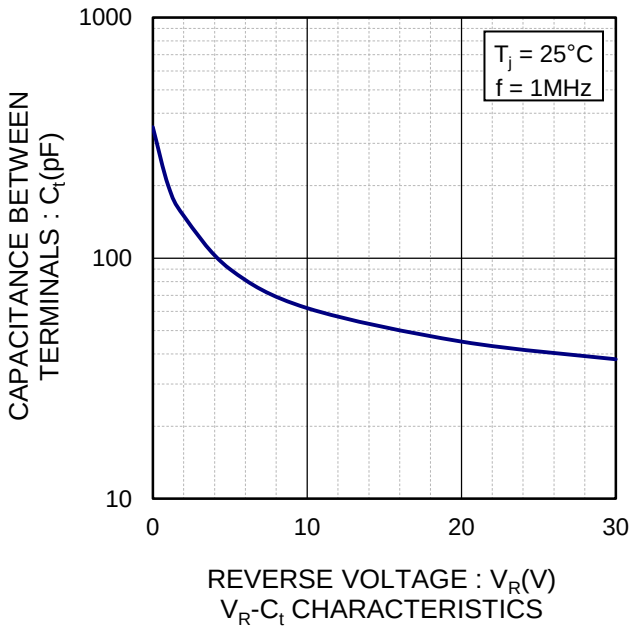
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_{F1}	I_F=0.5A	-	0.28	0.32	V
	V_{F2}	I_F=1.0A	-	0.31	0.35	V
Reverse Current	I_R	V_R=20V	-	280	700	μA

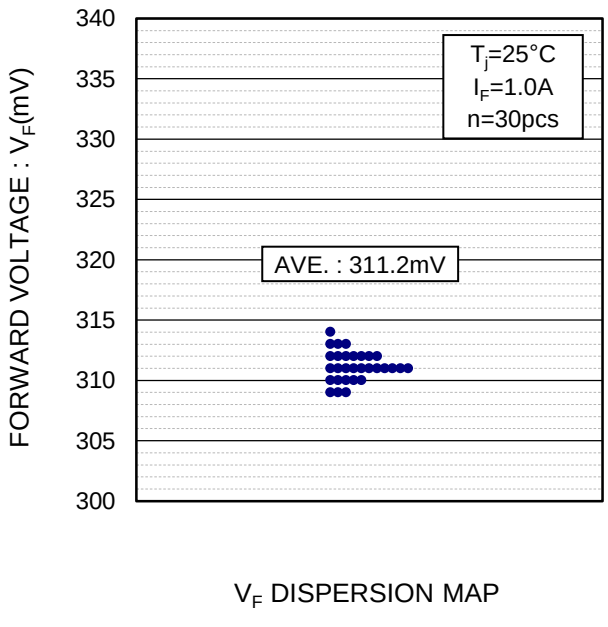
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●Electrical Characteristic Curves



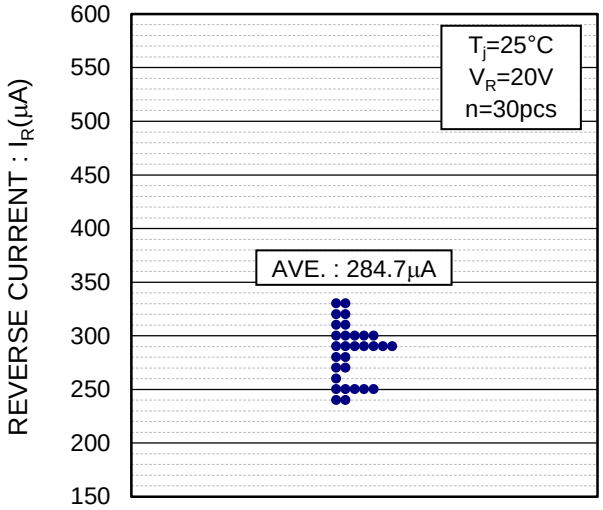




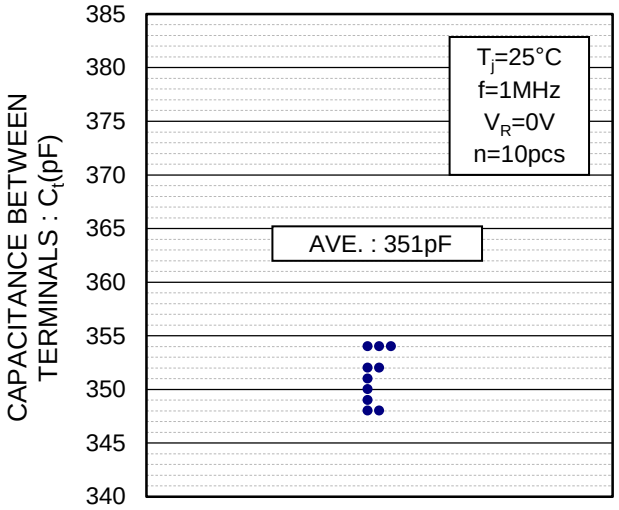


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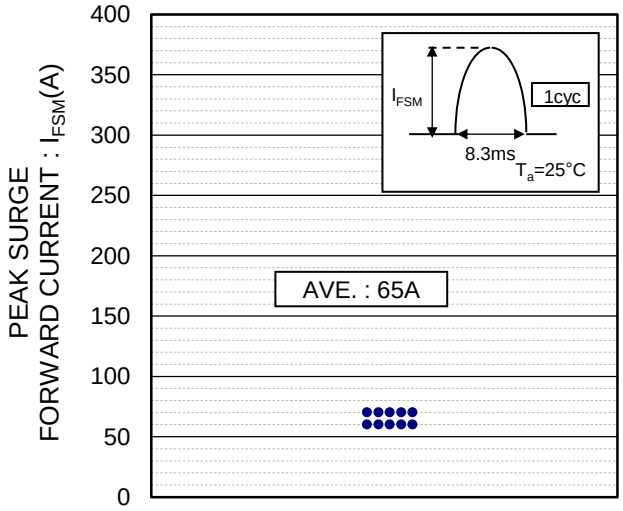
●Electrical Characteristic Curves



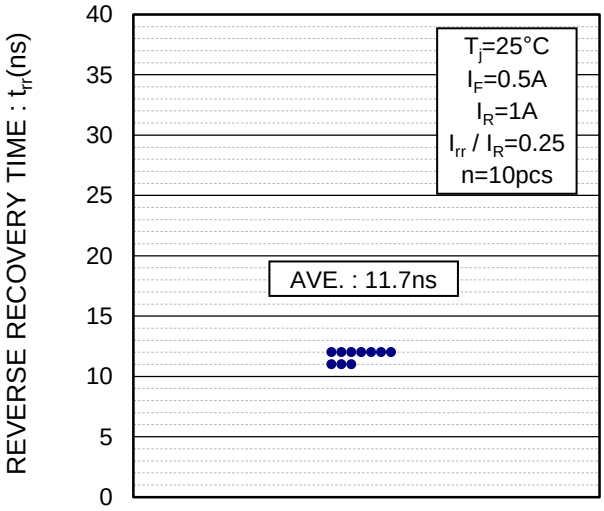
I_R DISPERSION MAP



C_t DISPERSION MAP



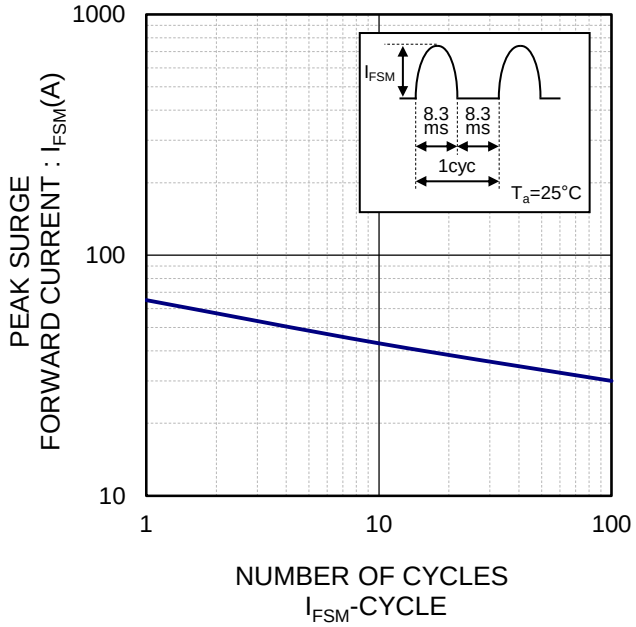
I_{FSM} DISPERSION MAP

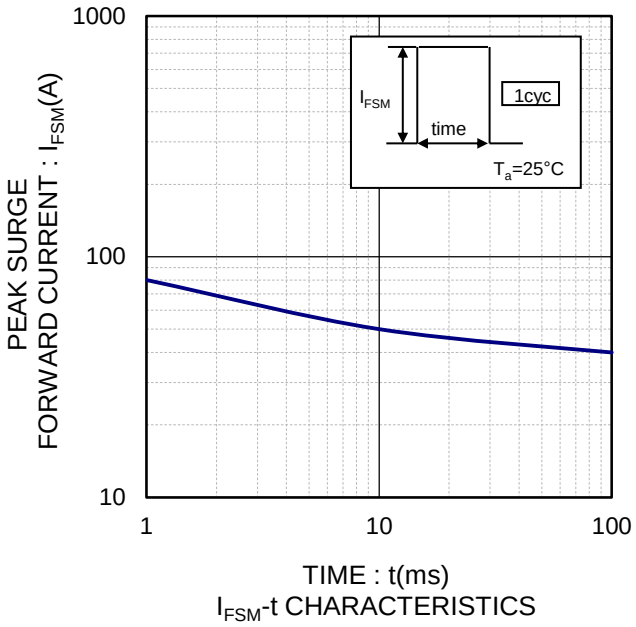


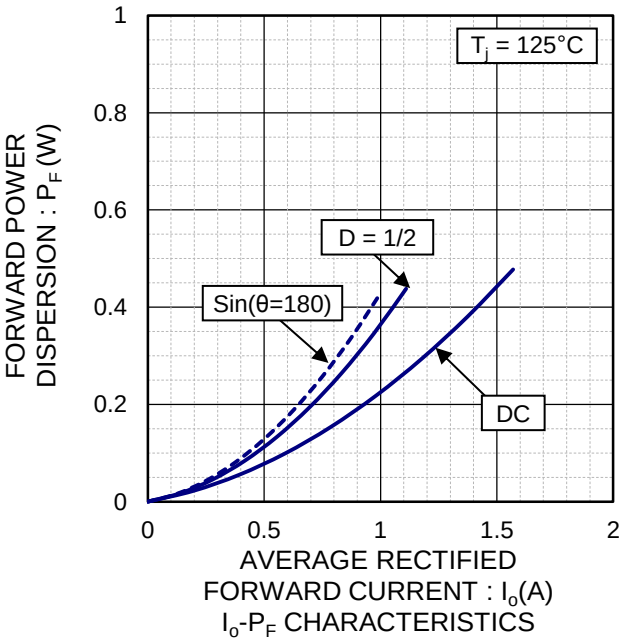
t_{rr} DISPERSION MAP

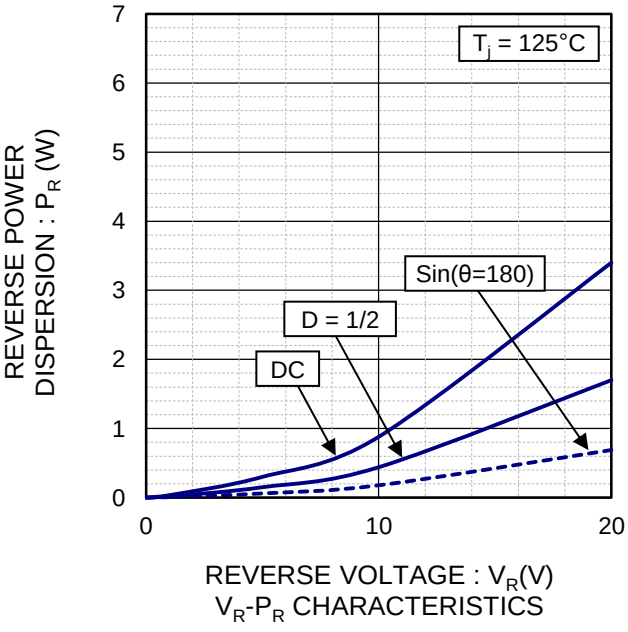
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●Electrical Characteristic Curves



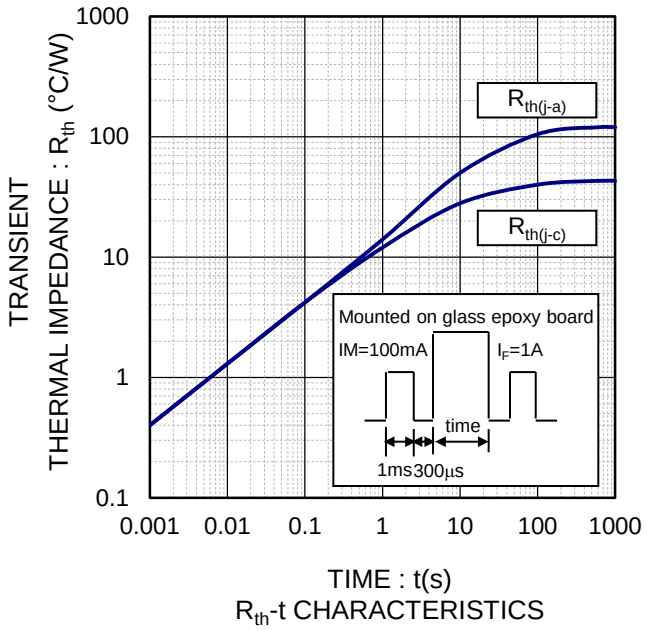




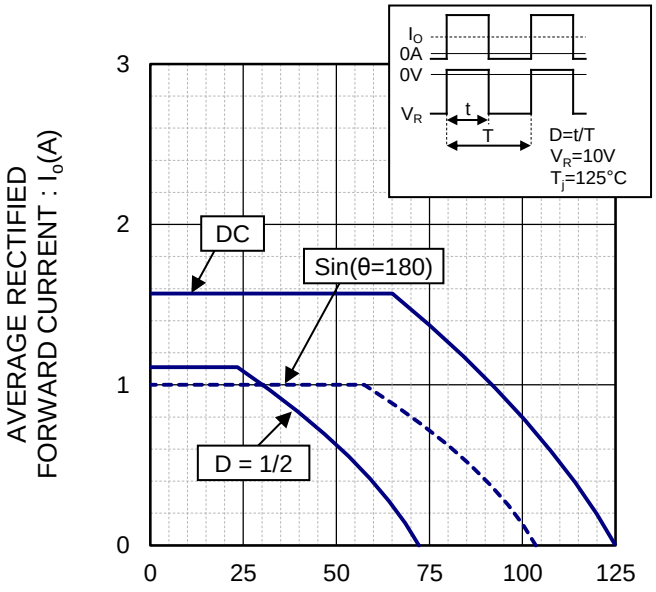


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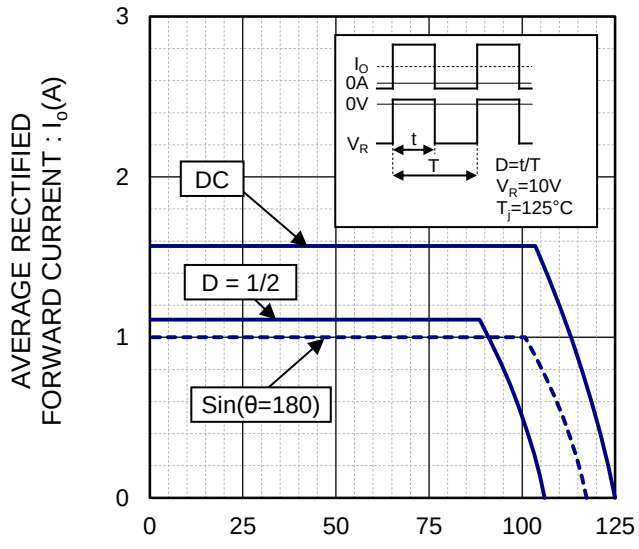
●Electrical Characteristic Curves



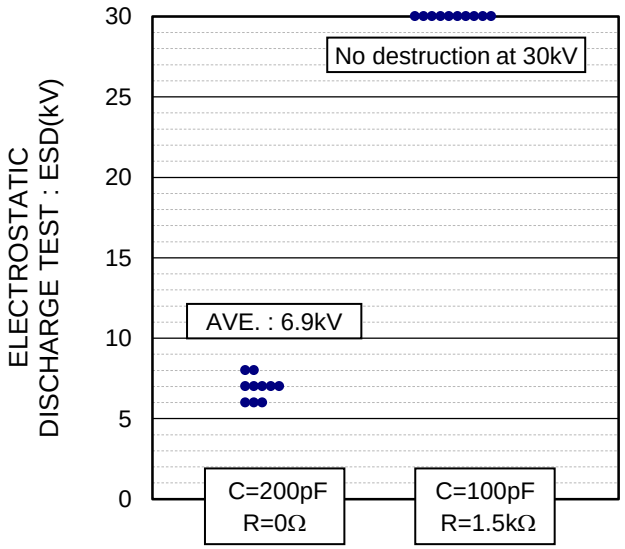
R_{th}-t CHARACTERISTICS



DERATING CURVE (I_o-T_a)



DERATING CURVE (I_o-T_c)



ESD DISPERSION MAP

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