Schottky Barrier Diode

RB520CM-60

Data Sheet

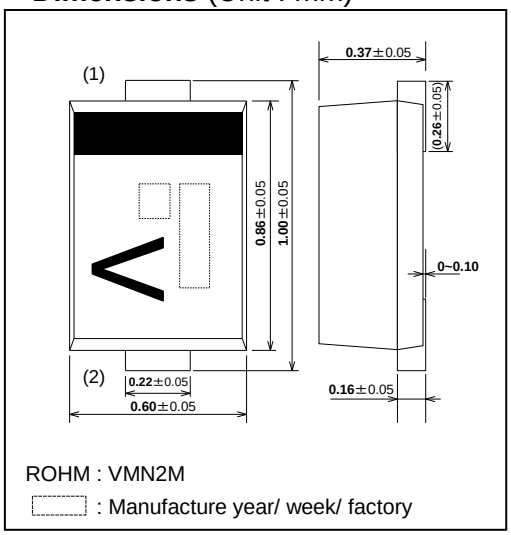
●Application

General rectification

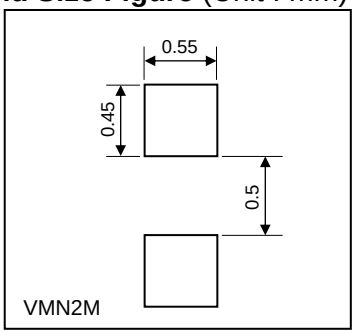
●Features

1) Ultra small mold type (VMN2M)
2) High reliability
3) Low V_F

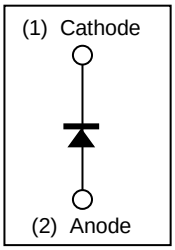
●Dimensions (Unit : mm)



●Land Size Figure (Unit : mm)



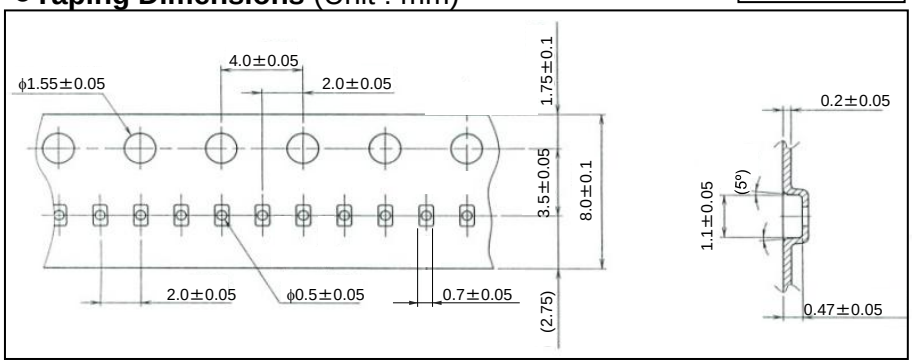
●Structure



●Construction

Silicon epitaxial planar type

●Taping Dimensions (Unit : mm)



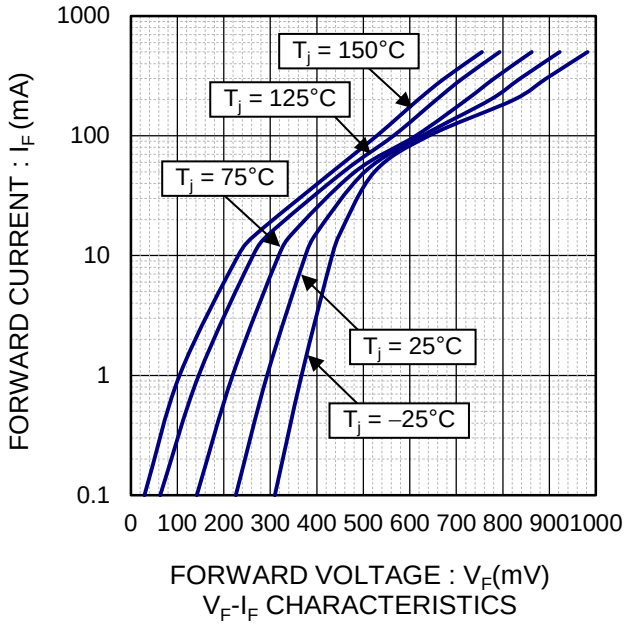
●Absolute Maximum Ratings (T_c= 25°C)

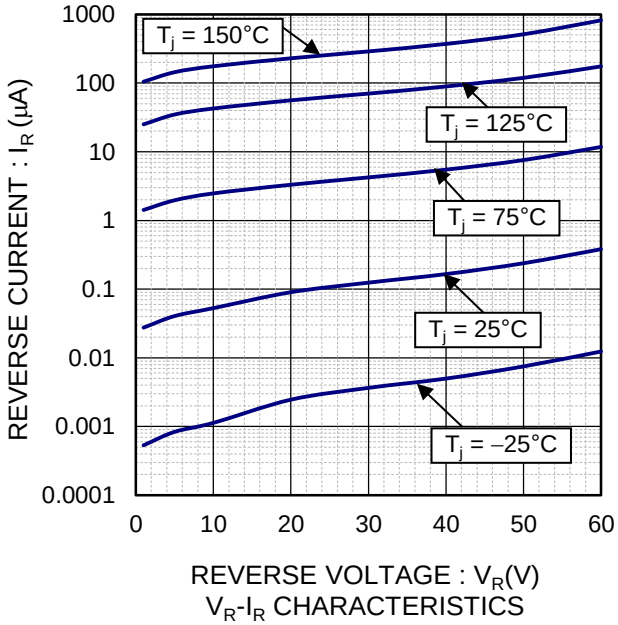
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	60	V
Reverse voltage	V_R	Direct reverse voltage	60	V
Average forward rectified current	I_o	Glass epoxy board mounted, 60Hz half sin wave, resistive load	100	mA
Non-repetitive forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive at T_a=25ºC , 1cycle	500	mA
Operating junction temperature	T_j	-	150	°C
Storage temperature	T_{stg}	-	−55 to +150	°C

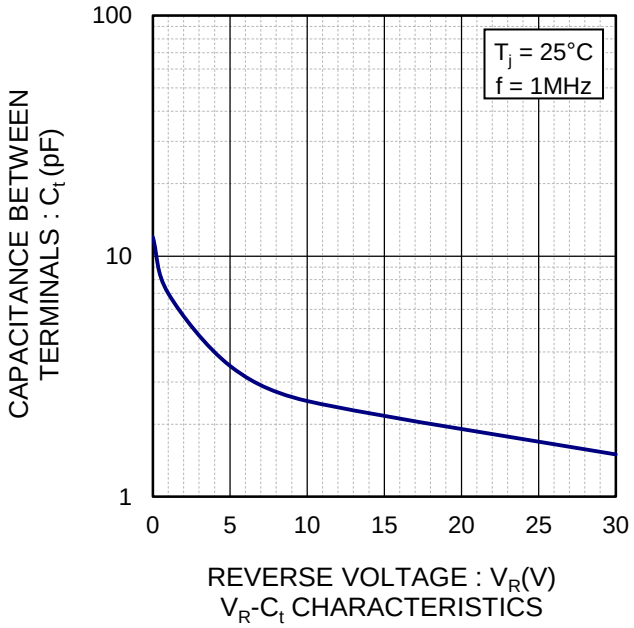
●Electrical Characteristics (T_j= 25°C)

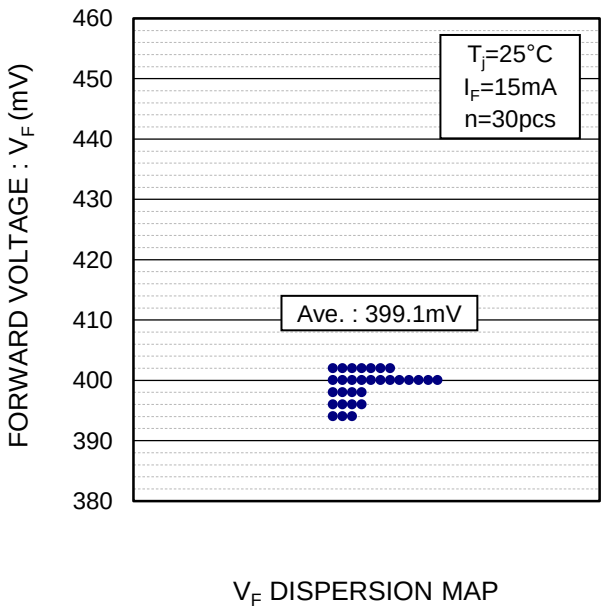
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_{F1}	I_F=10mA	-	0.38	0.44	V
	V_{F2}	I_F=15mA	-	0.40	0.47	V
Reverse current	I_R	V_R=60V	-	0.3	3	μA

●Electrical Characteristic Curves









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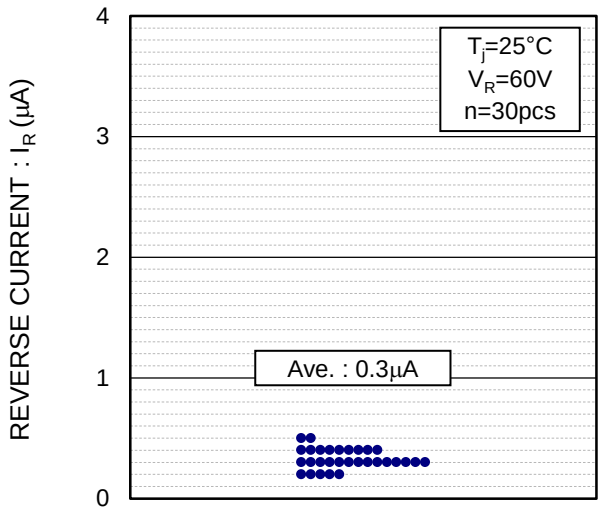
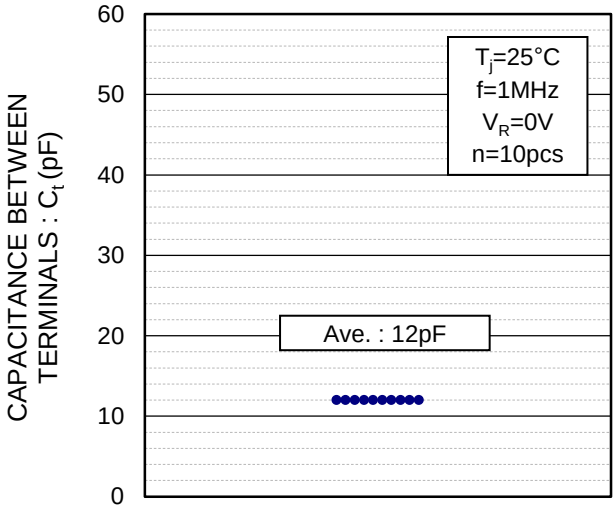
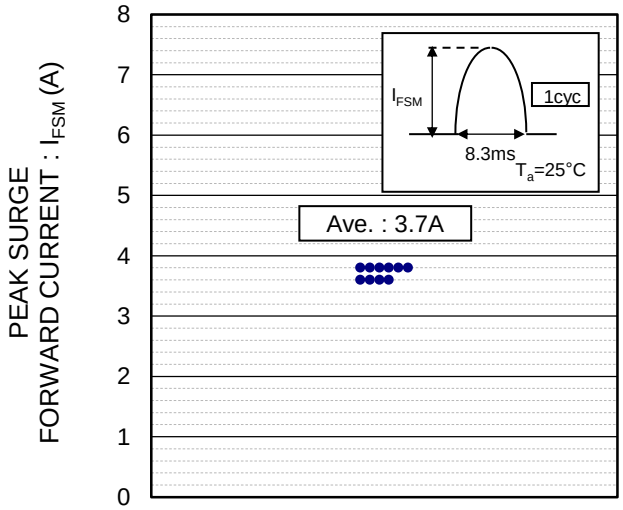


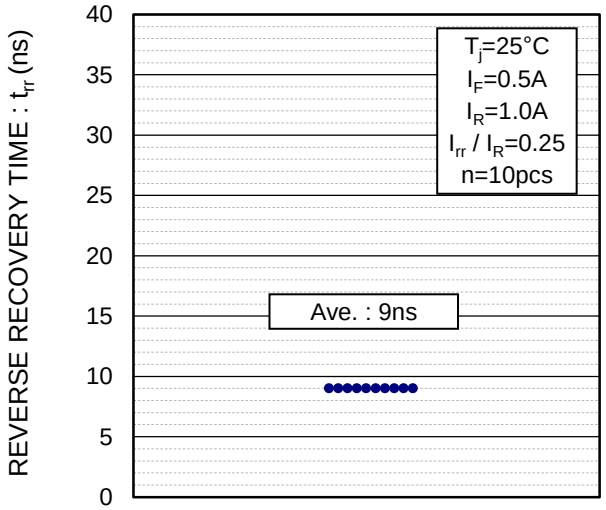
I_R DISPERSION MAP



C_t DISPERSION MAP

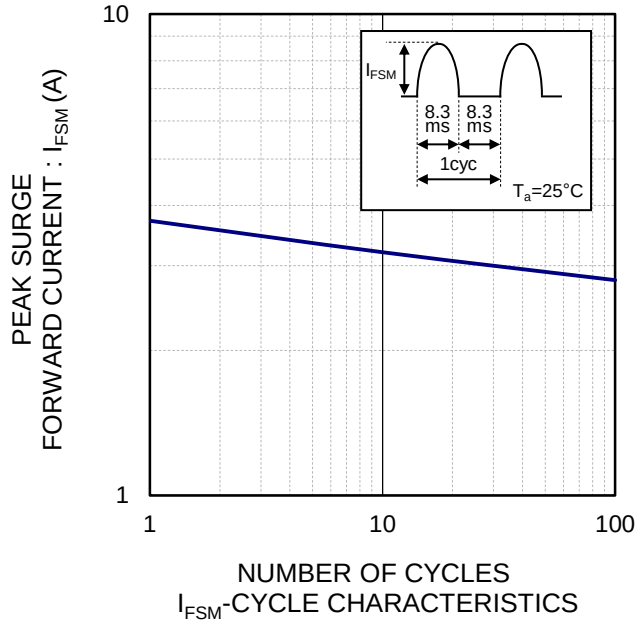


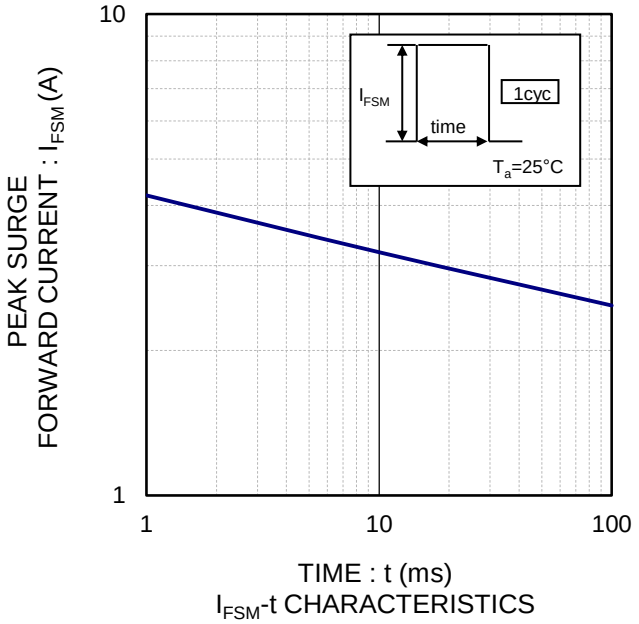
I_{FSM} DISPERSION MAP

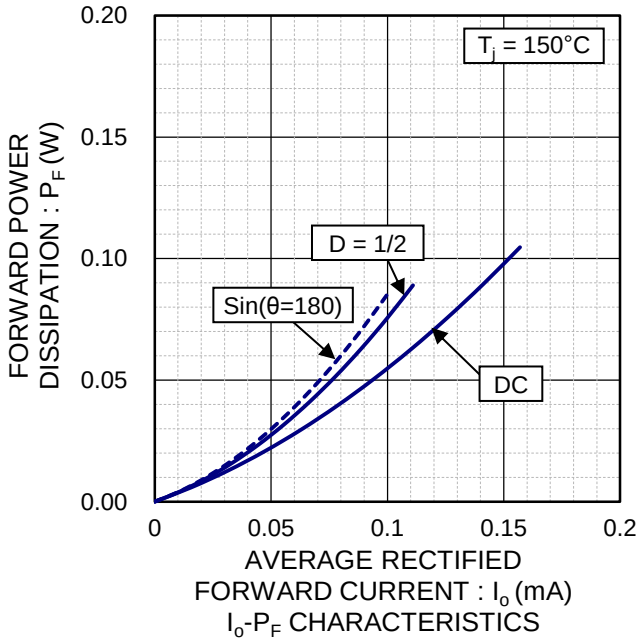


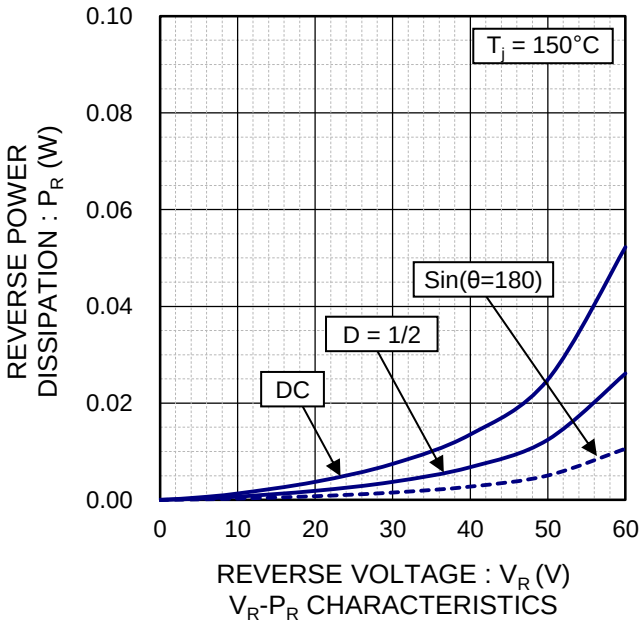
t_{rr} DISPERSION MAP

●Electrical Characteristic Curves









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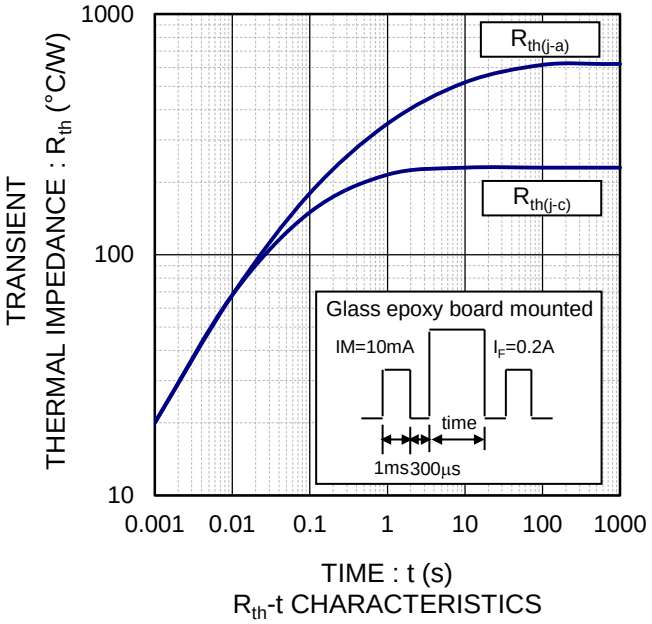
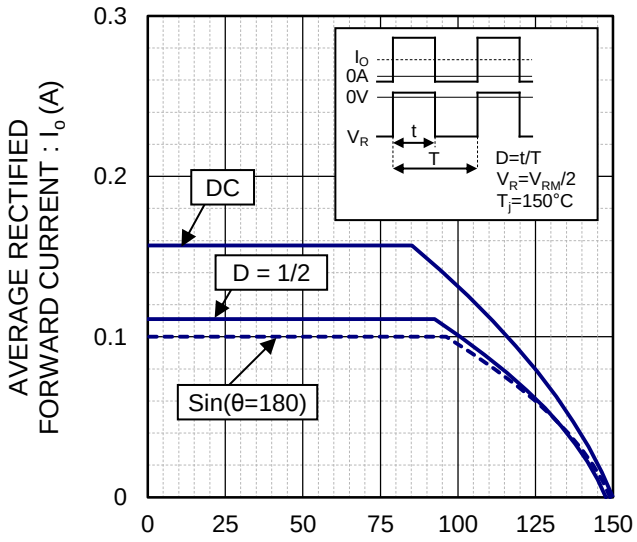
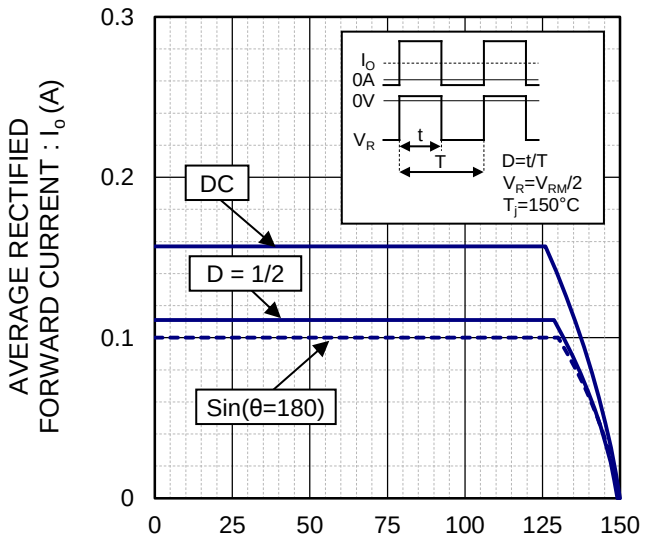


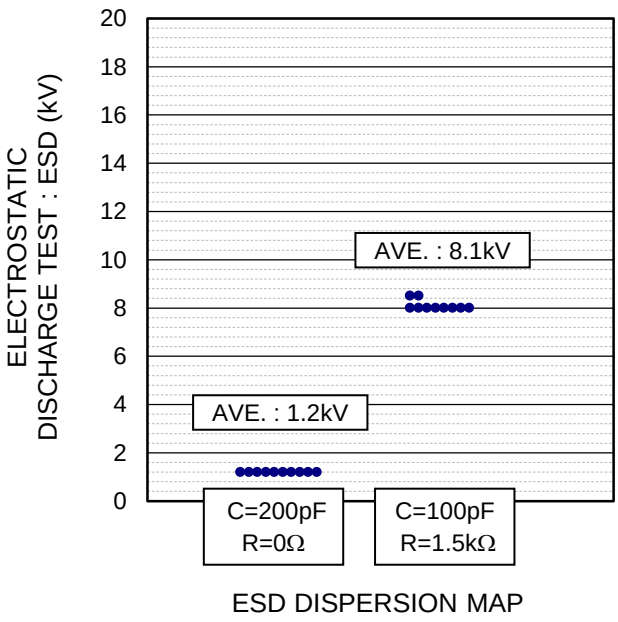
Rth-t CHARACTERISTICS



DERATING CURVE (Io-Ta)



DERATING CURVE (Io-Tc)



ESD DISPERSION MAP

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