Schottky barrier diode

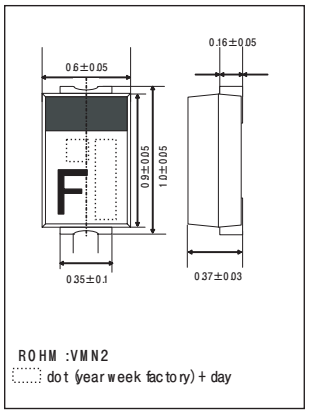
RB521CS-30

●Applications
Low current rectification

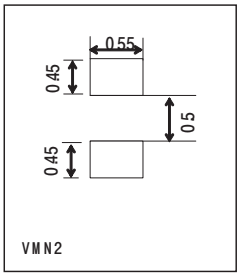
●Features
1) Ultra Small power mold type (VMN2)
2) Low V_F
3) High reliability

●Structure
Silicon epitaxial planer

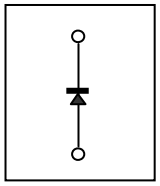
●Dimensions (Unit : mm)



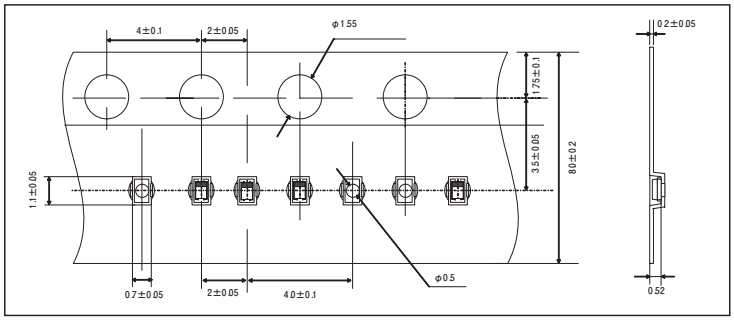
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



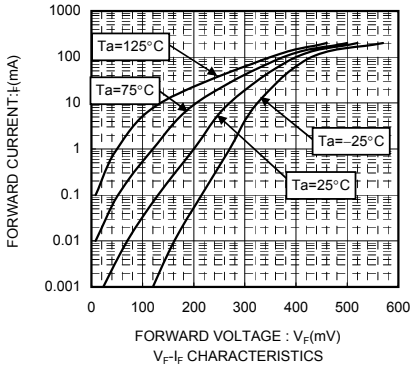
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectifierd forward current	Io	100	mA
Forward current surge peak (60Hz/1cyc)	I_{FSM}	500	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-40 to +150	°C

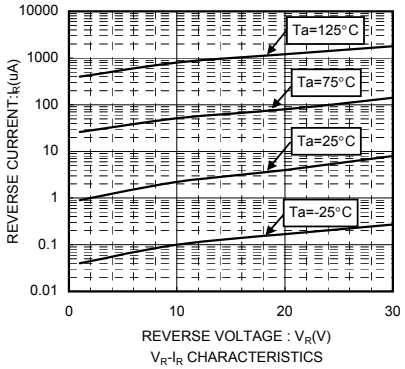
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward vpltage	V_F	-	-	0.35	V	I_F=10mA
Reverse current	I_R	-	-	10	μA	V_R=10V

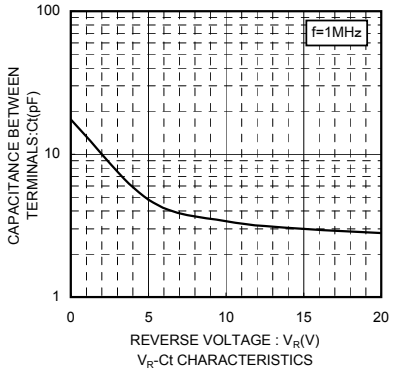
●Electrical characteristic curves



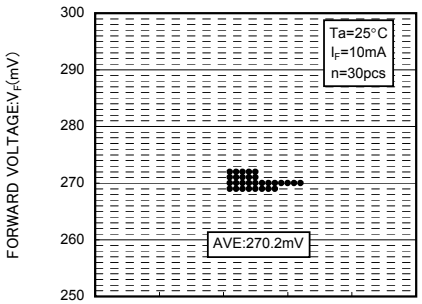
V_F-I_F CHARACTERISTICS



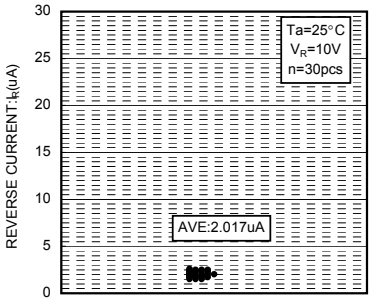
V_R-I_R CHARACTERISTICS



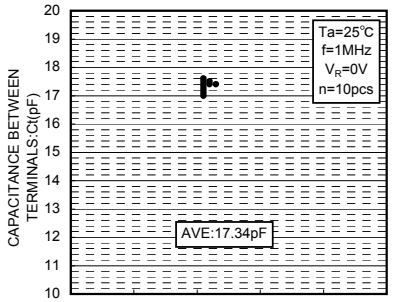
V_R-Ct CHARACTERISTICS



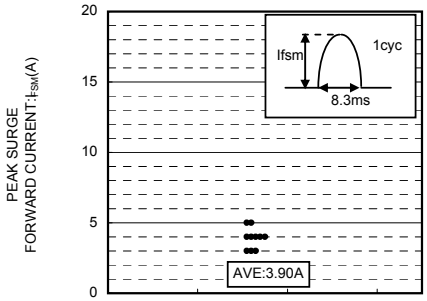
V_F DISPERSION MAP



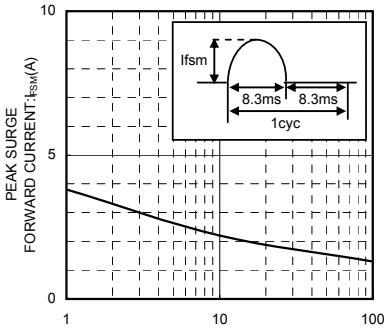
I_R DISPERSION MAP



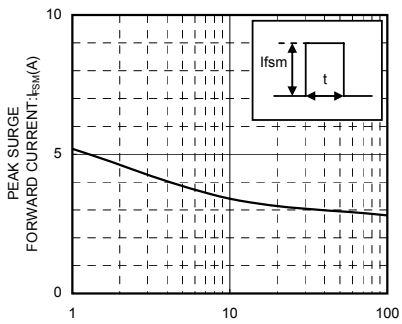
Ct DISPERSION MAP



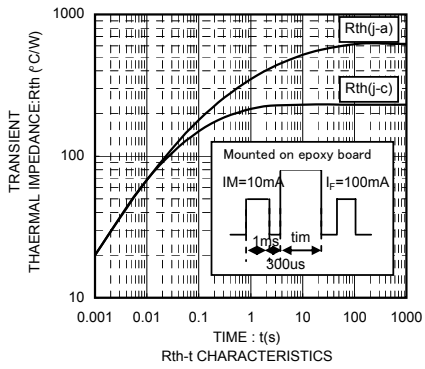
I_{FSM} DISRESION MAP



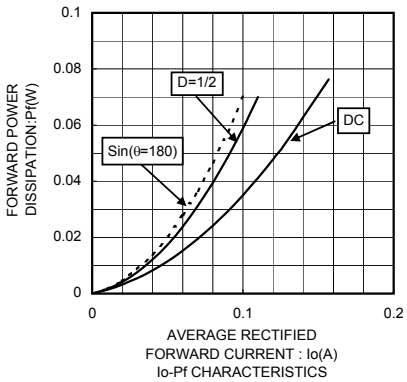
I_{FSM}-CYCLE CHARACTERISTICS



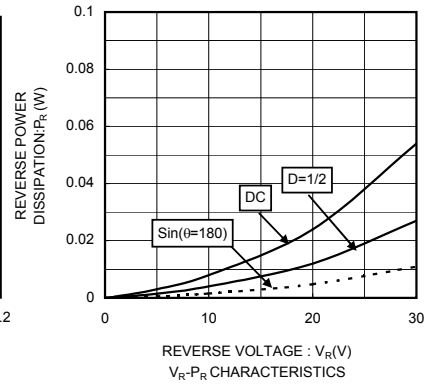
I_{FSM}-t CHARACTERISTICS



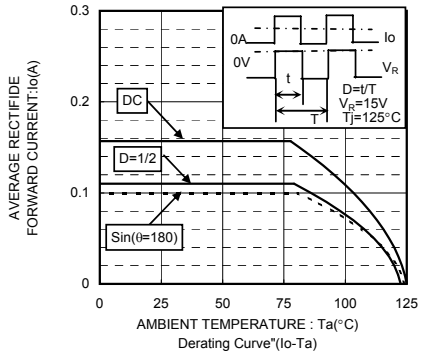
Rth-t CHARACTERISTICS

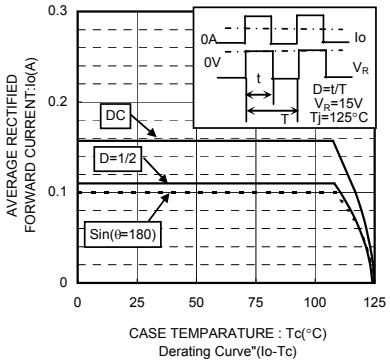


Io-Pf CHARACTERISTICS



V_R-P_R CHARACTERISTICS





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