

Schottky barrier diode

RB520CS-30

● Applications

Low current rectification

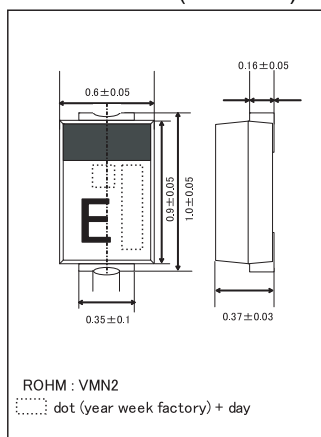
● Features

- 1) Ultra Small power mold type. (VMN2)
- 2) Low I_R
- 3) High reliability.

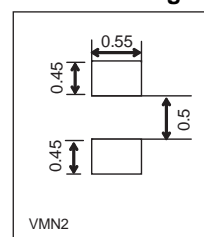
● Construction

Silicon epitaxial planar

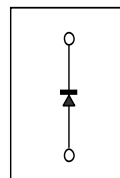
● Dimensions (Unit : mm)



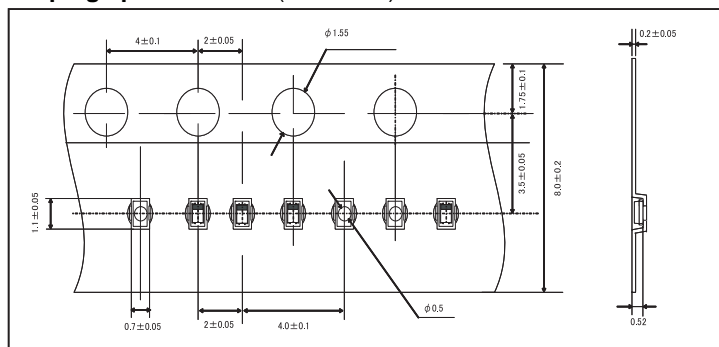
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)

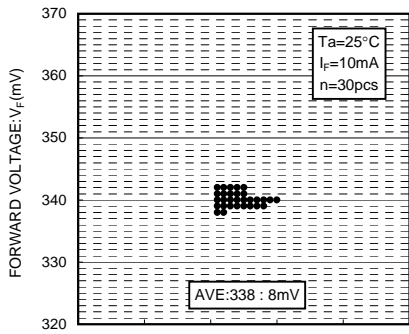
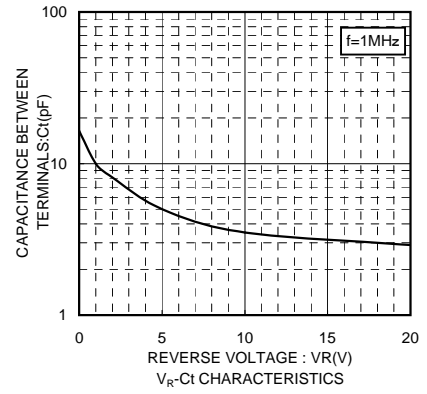
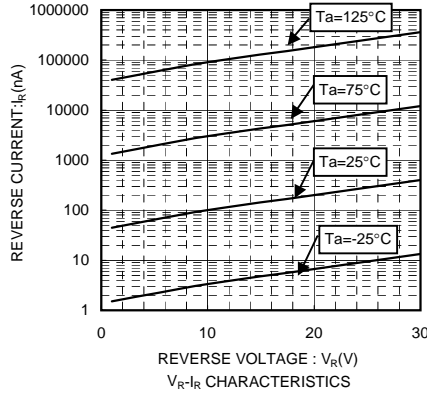
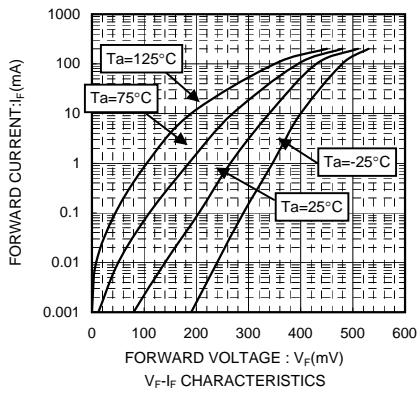


● Absolute maximum ratings (Ta=25°C)

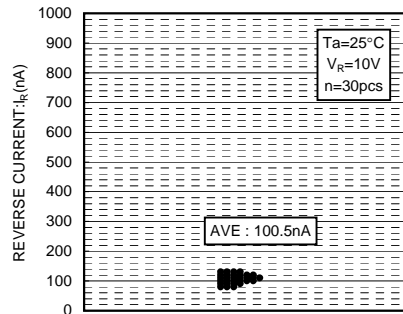
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	100	mA
Forward current surge peak (60Hz/1cyc)	I_{FSM}	500	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

● Electrical characteristics (Ta=25°C)

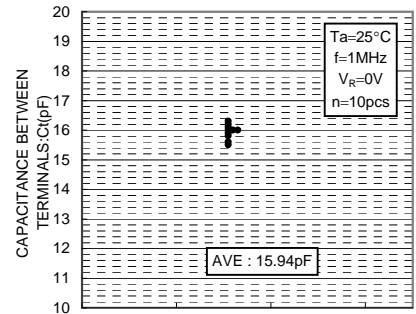
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=10mA$
Reverse current	I_R	-	-	0.5	μA	$V_R=10V$



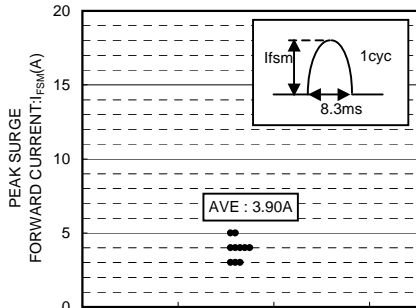
V_F DISPERSION MAP



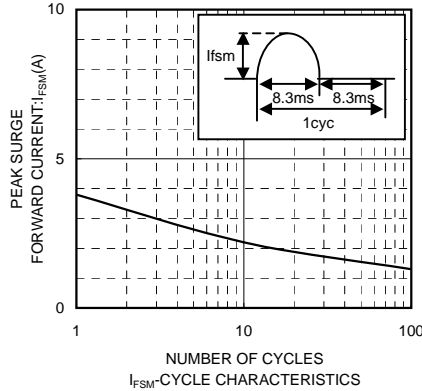
I_R DISPERSION MAP



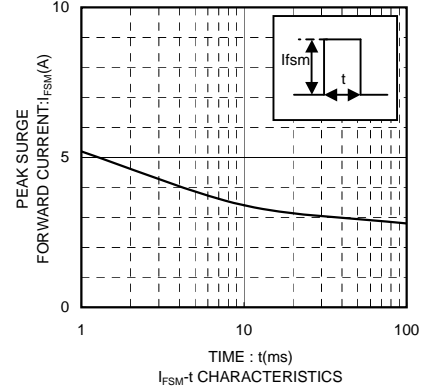
C_t DISPERSION MAP



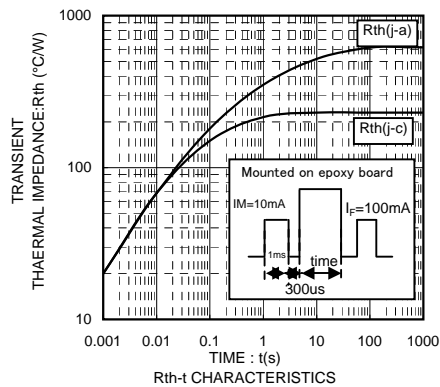
I_{FSM} DISRESION MAP



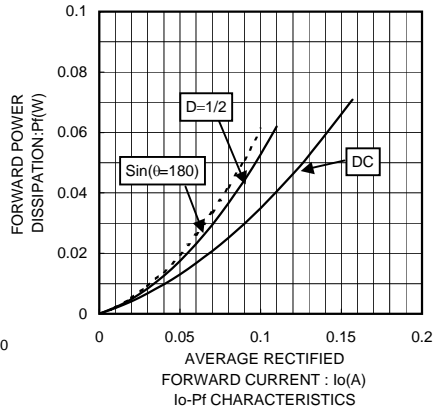
I_{FSM}-CYCLE CHARACTERISTICS



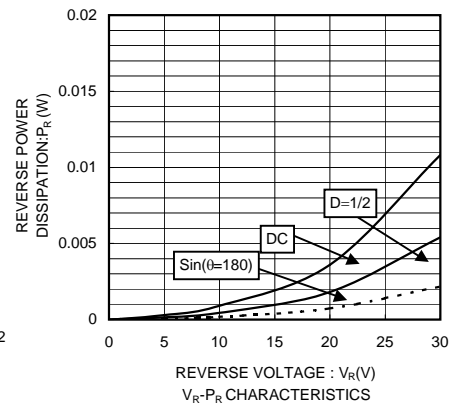
I_{FSM}t CHARACTERISTICS



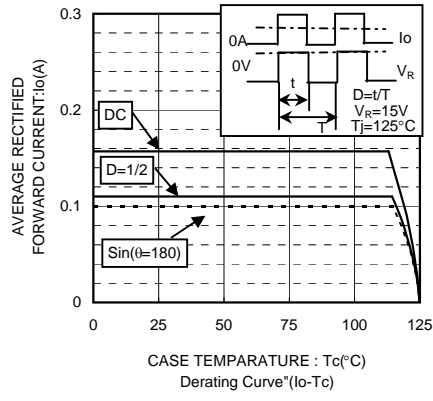
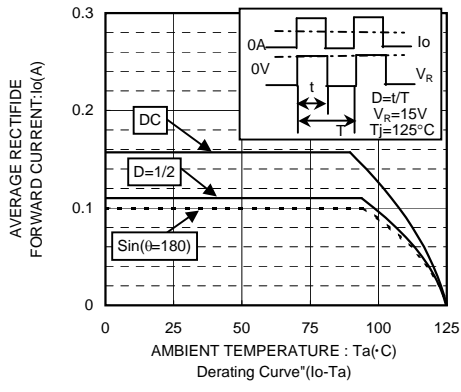
R_{th}-t CHARACTERISTICS



I_o-P_f CHARACTERISTICS



V_R-P_R CHARACTERISTICS



Notes

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