

Schottky barrier diode

RB751CS-40

●Applications

Low current rectification

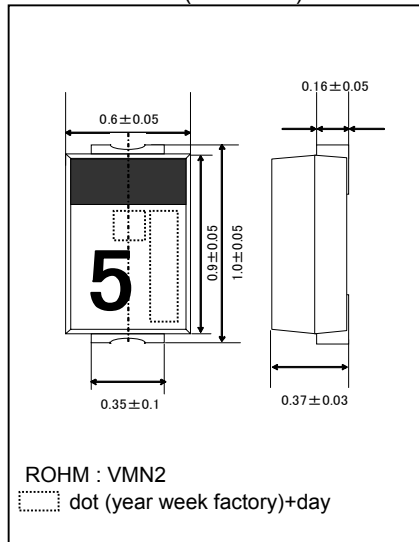
●Features

- 1) Ultra Small mold type (VMN2)
- 2) Low V_F
- 3) High reliability

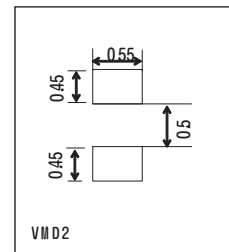
●Structure

Silicon epitaxial planer

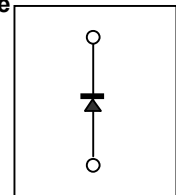
●Dimensions (Unit : mm)



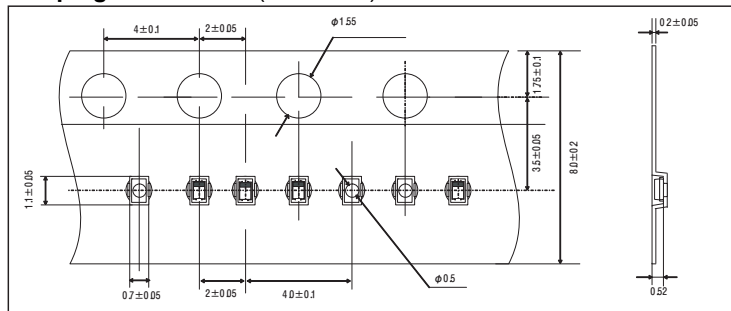
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



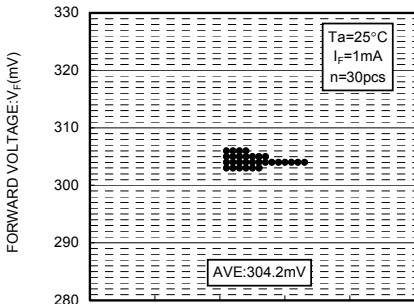
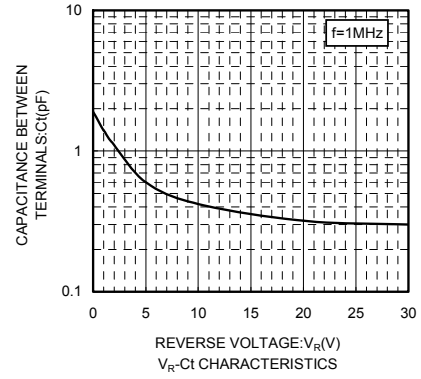
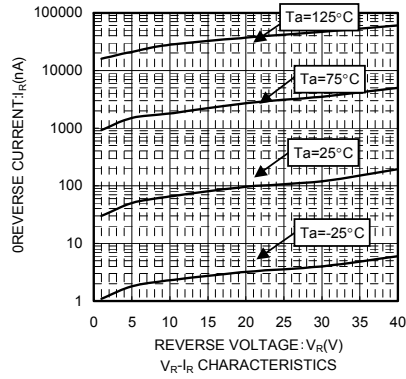
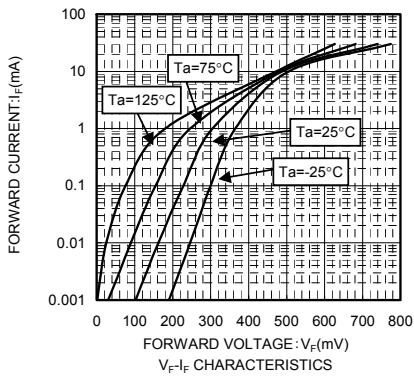
●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	I_o	30	mA
Forward current surge peak(60Hz/1cyc)	I_{FSM}	200	mA
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

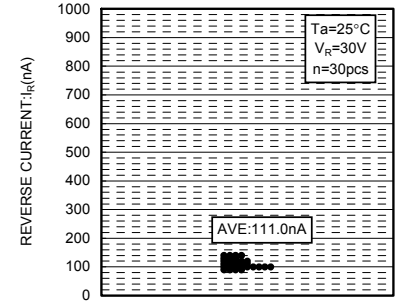
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-		0.37	V	$I_F=1mA$
Reverse current	I_R	-		0.5	μA	$V_R=30V$
Capacitance between terminals	C_t	-	2	-	pF	$V_R=1V, f=1MHz$

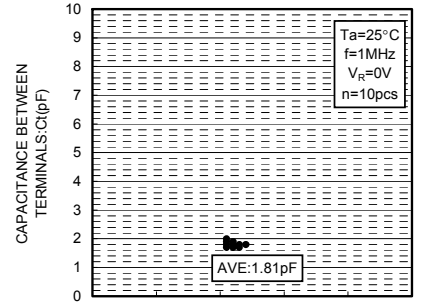
●Electrical characteristic curves



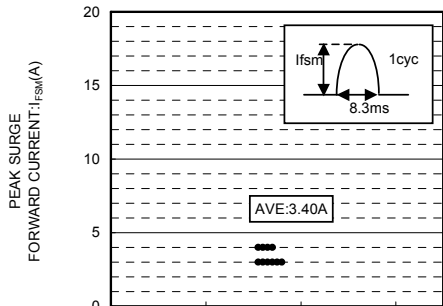
V_F DISPERSION MAP



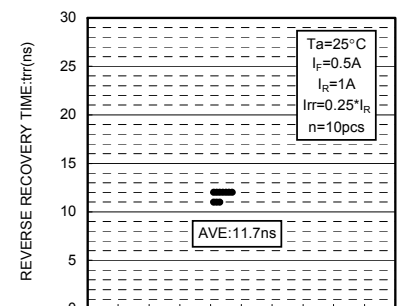
I_R DISPERSION MAP



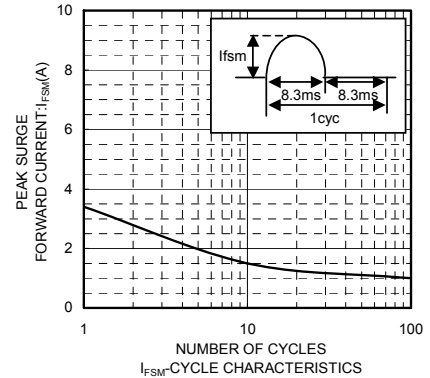
C_t DISPERSION MAP



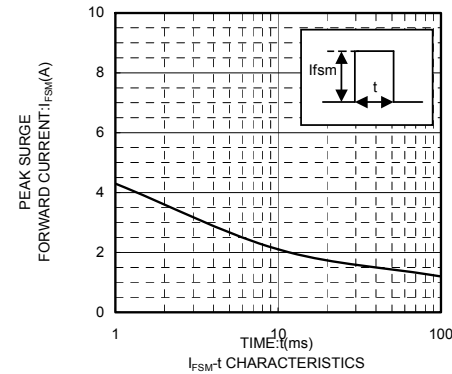
I_{FSM} DISPERSION MAP



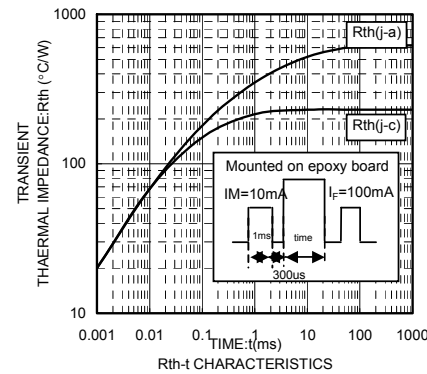
t_{rr} DISPERSION MAP



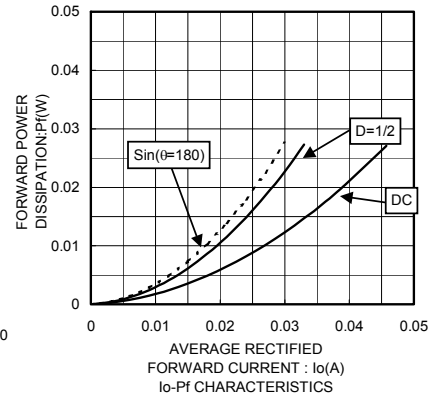
I_{FSM} CYCLE CHARACTERISTICS



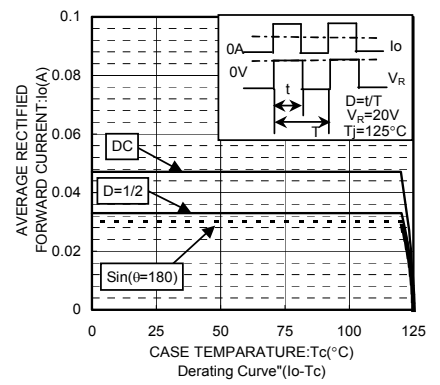
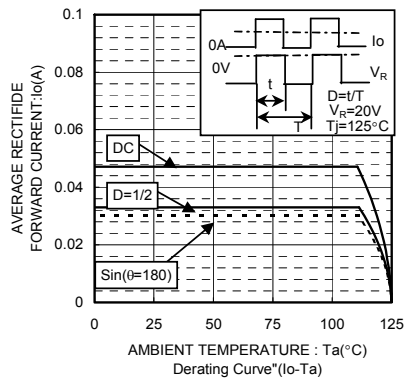
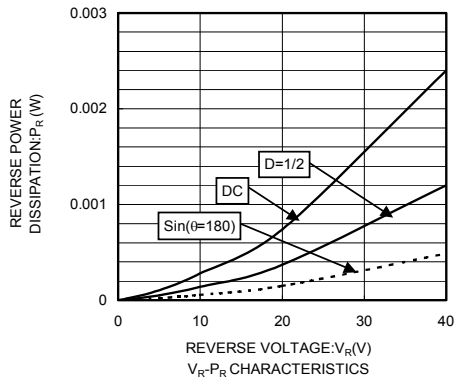
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



I_o - P_F CHARACTERISTICS



Notes

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