

Schottky Barrier Diode

RB501VM-40

●Applications

Low current rectification

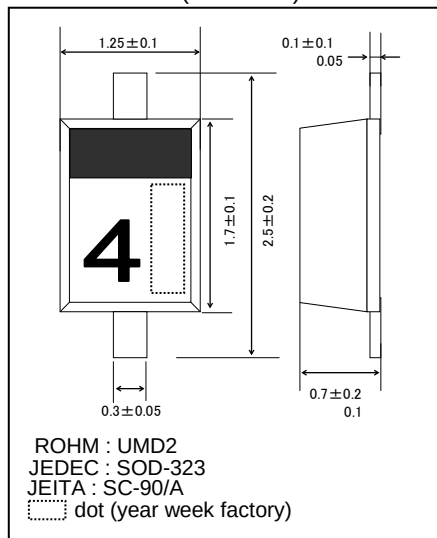
●Features

- 1) Small mold type. (UMD2)
- 2) High reliability

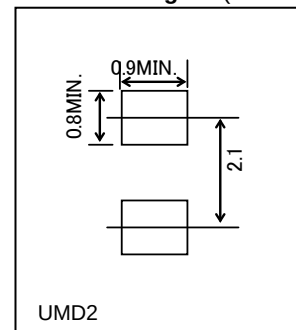
●Construction

Silicon epitaxial planer

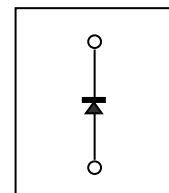
●Dimensions (Unit : mm)



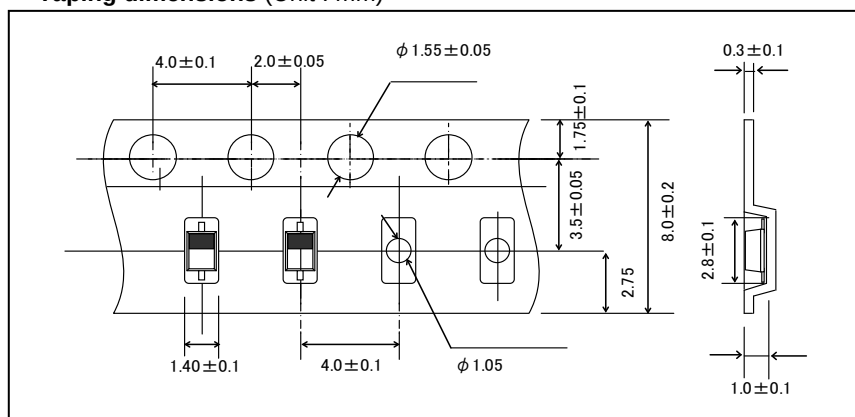
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

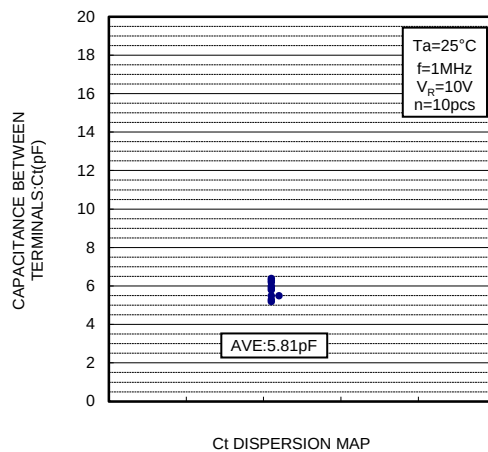
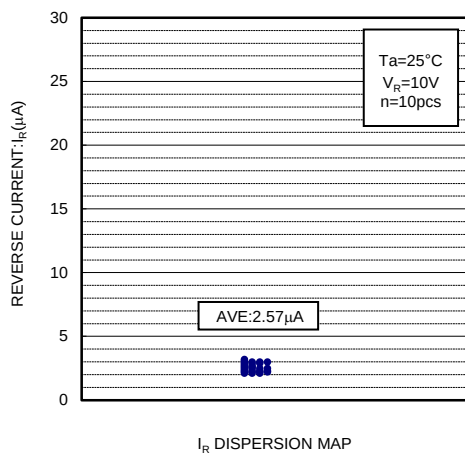
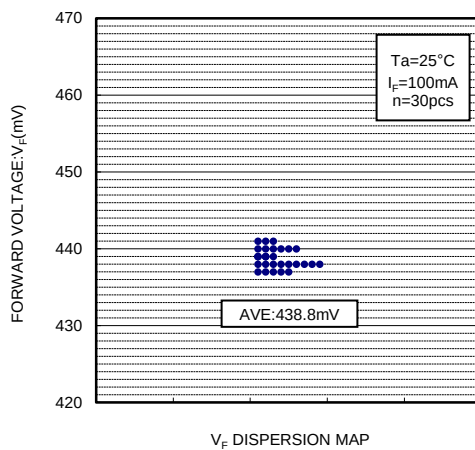
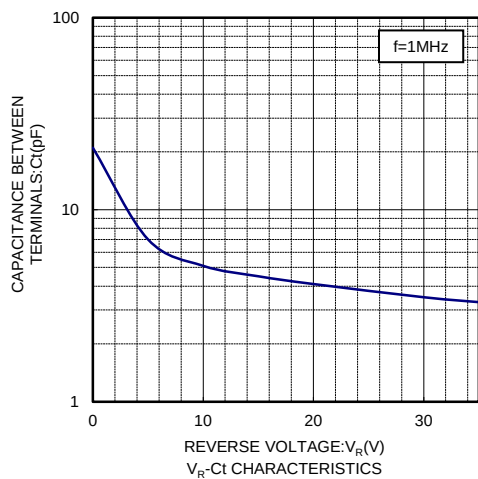
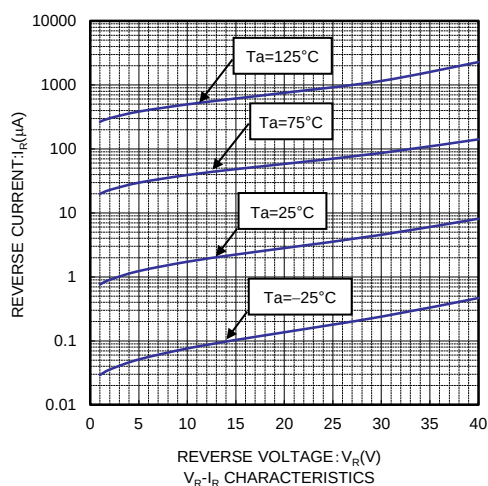
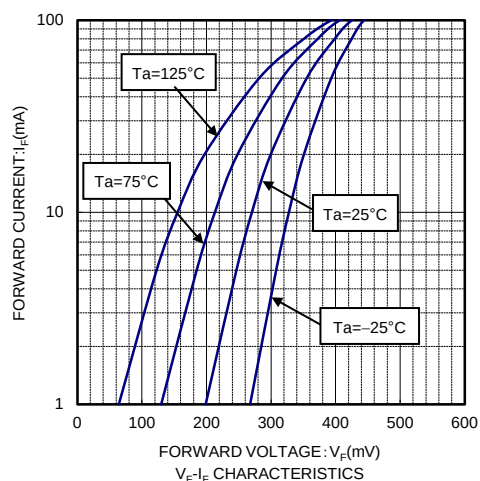


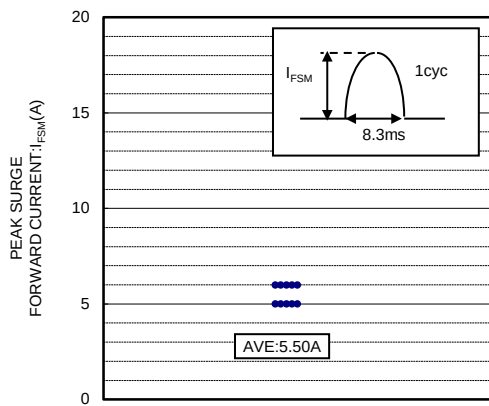
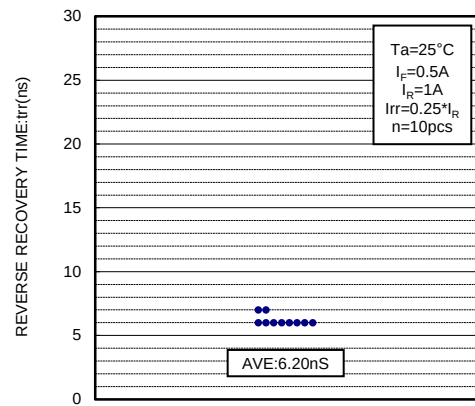
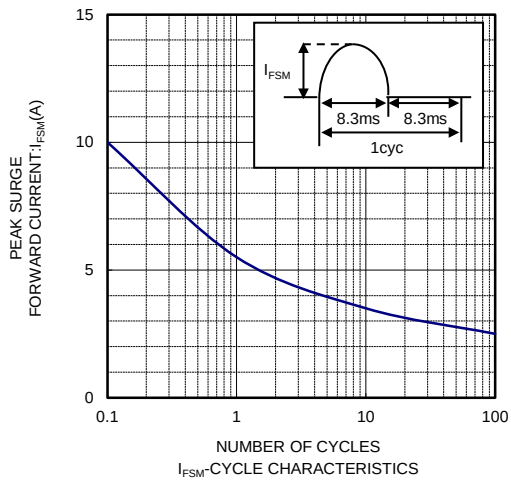
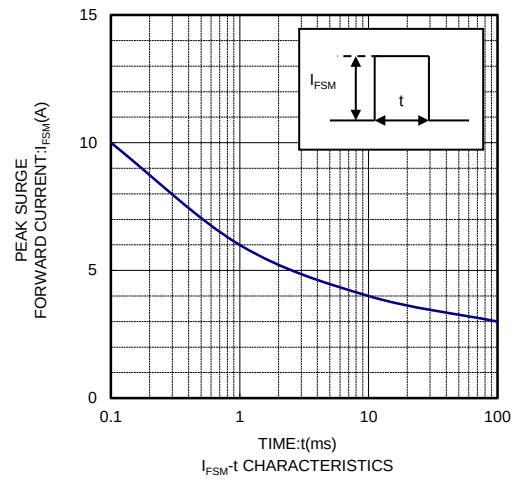
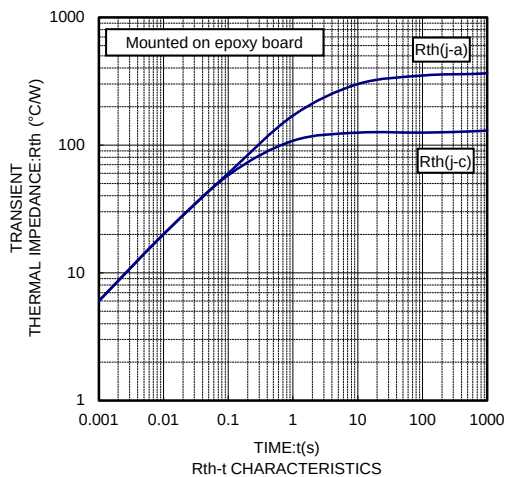
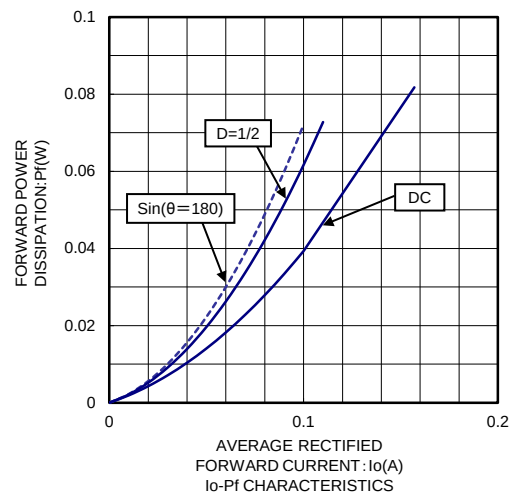
●Absolute maximum ratings (Ta=25°C)

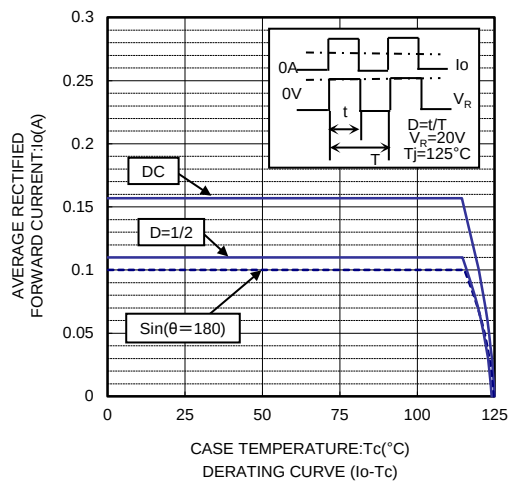
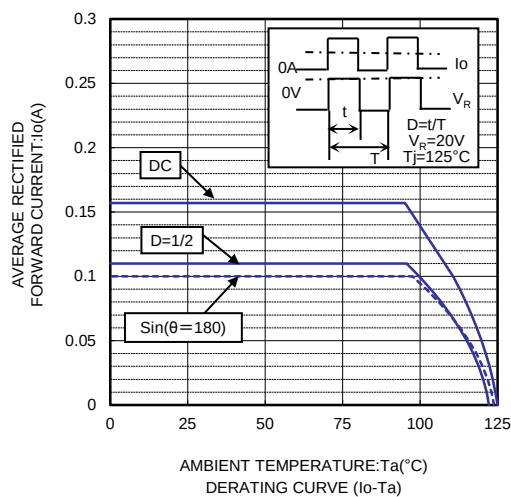
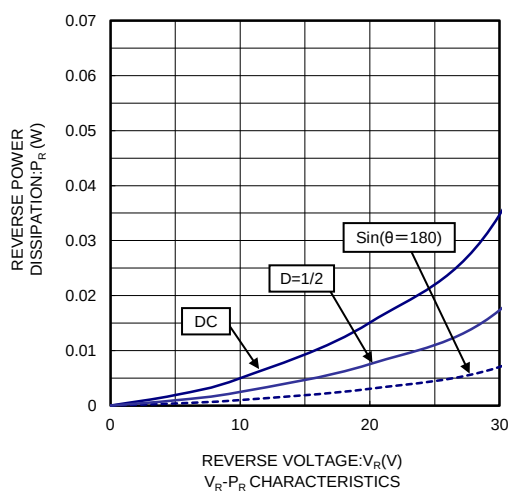
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_o	100	mA
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	1	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	- 40 to +125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.55	V	$I_F=100mA$
	V_{F2}	-	-	0.34	V	$I_F=10mA$
Reverse current	I_R	-	-	30	μA	$V_R=10V$
Capacitance between terminals	C_t	-	6.0	-	pF	$V_R=10V, f=1MHz$



 I_{FSM} DISPERSION MAP trr DISPERSION MAP I_{FSM} -CYCLE CHARACTERISTICS I_{FSM} - t CHARACTERISTICS R_{th} - t CHARACTERISTICS I_o - P_F CHARACTERISTICS



Notes

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