

Schottky Barrier Diode

RB551VM-30

●Applications

High speed switching

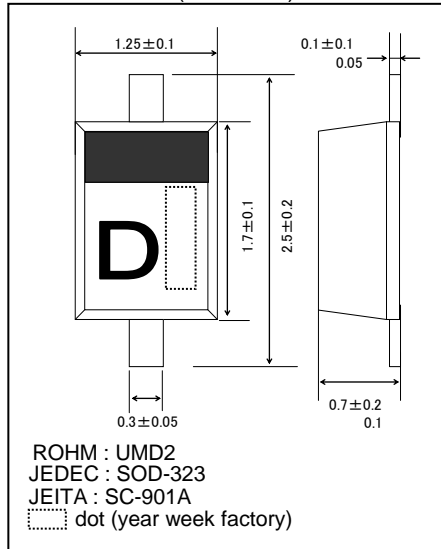
●Features

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

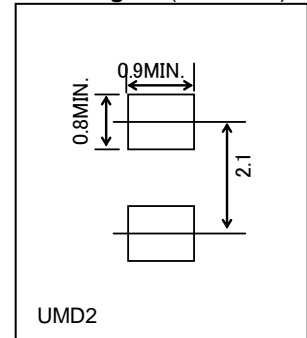
●Construction

Silicon epitaxial

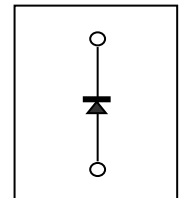
●Dimensions (Unit : mm)



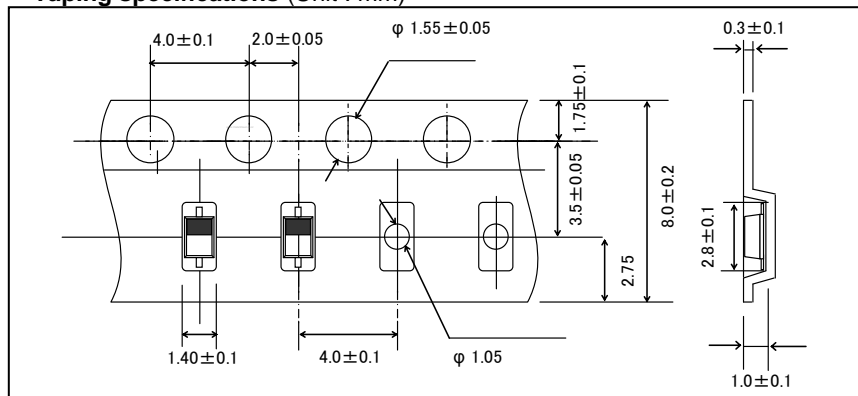
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

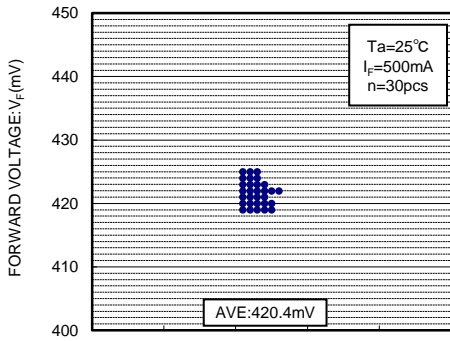
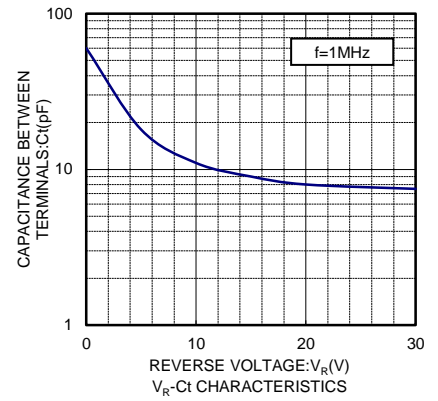
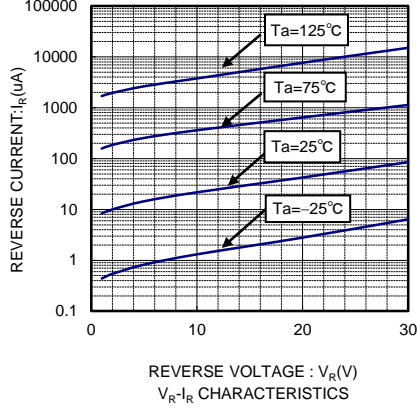
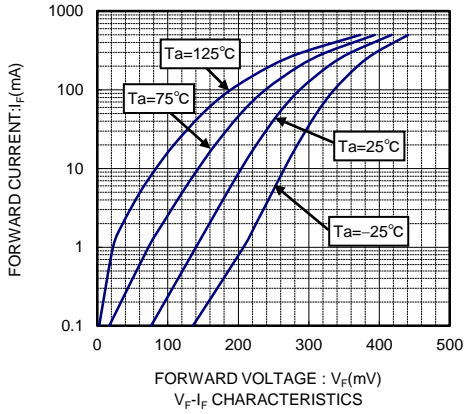


●Absolute maximum ratings (Ta=25°C)

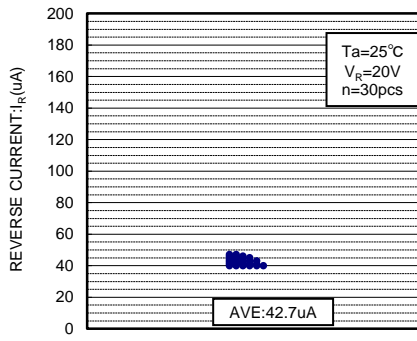
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	30	V
Reverse voltage (DC)	V_R	20	V
Average rectified forward current	I_o	500	mA
Forward current surge peak (60Hz·1cyc)	I_{FSM}	2	A
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-40 to +125	°C

●Electrical characteristics (Ta=25°C)

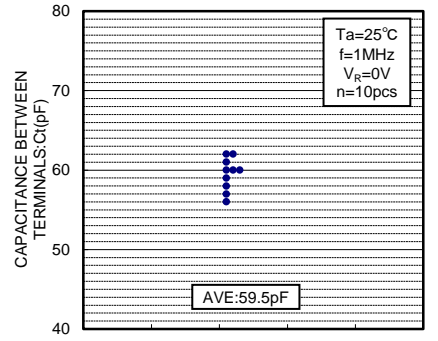
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.36	V	$I_F=100mA$
	V_{F2}	-	-	0.47	V	$I_F=500mA$
Reverse current	I_R	-	-	100	μA	$V_R=20V$



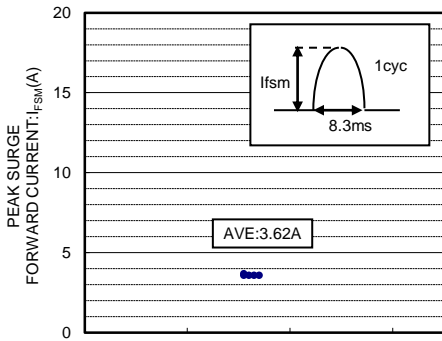
V_F DISPERSION MAP



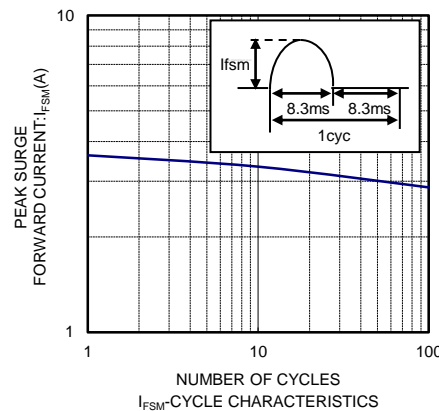
I_R DISPERSION MAP



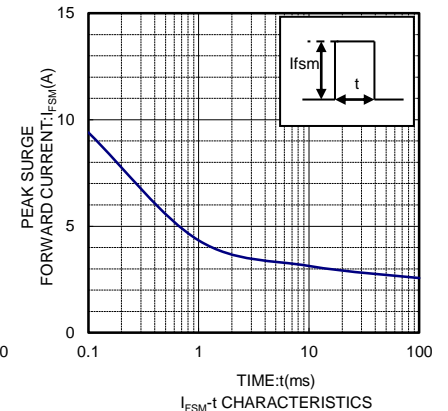
C_t DISPERSION MAP



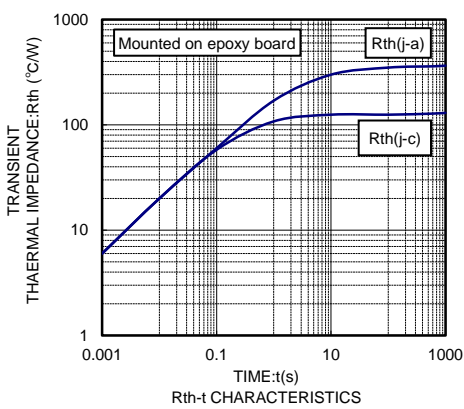
I_{FSM} DISPERSION MAP



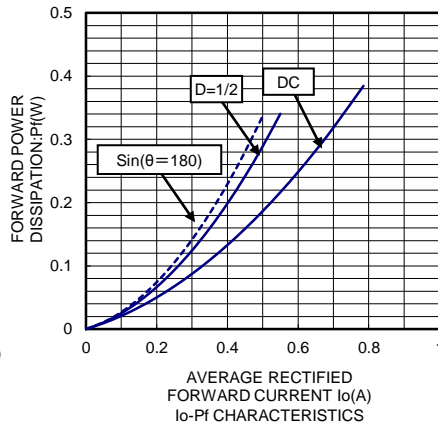
I_{FSM} -CYCLE CHARACTERISTICS



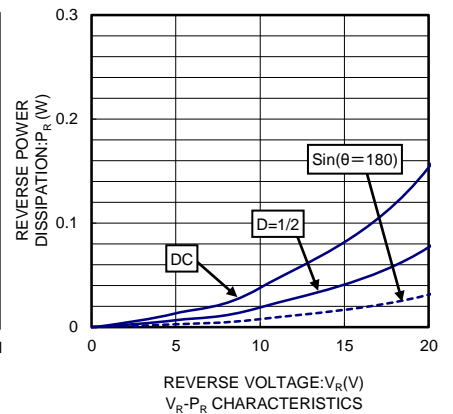
I_{FSM} - t CHARACTERISTICS



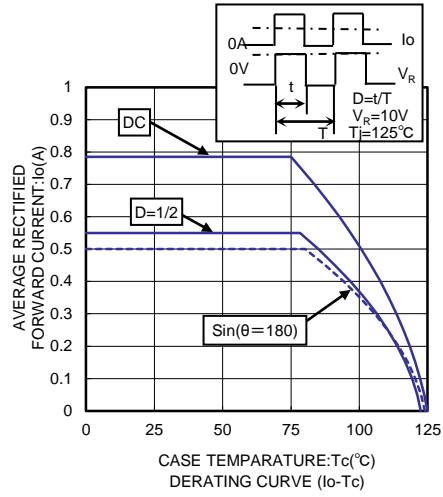
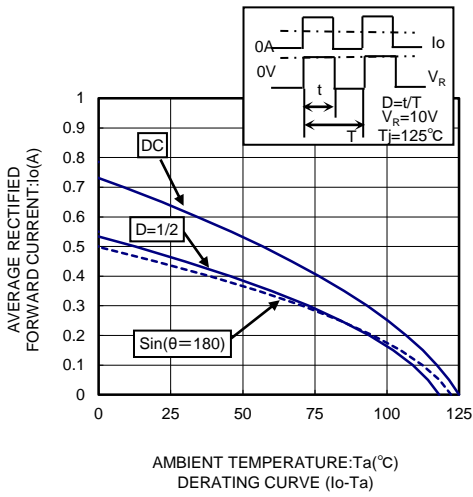
R_{th} - t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT I_o (A)
 I_o - P_F CHARACTERISTICS



REVERSE VOLTAGE: V_R (V)
 V_R - P_R CHARACTERISTICS



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