

Schottky Barrier Diode

RB558VA150

●Applications

General rectification

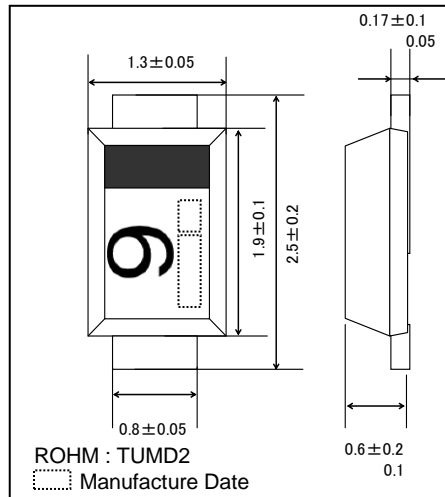
●Features

- 1) Small power mold type.(TUMD2)
- 2) High reliability
- 3) AEC-Q101 qualified

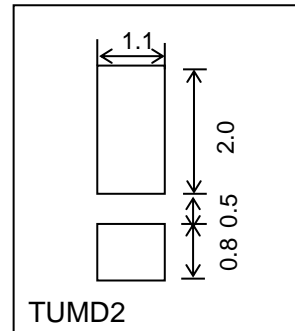
●Construction

Silicon epitaxial

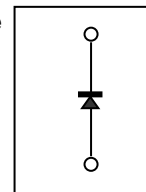
●External Dimensions(Unit : mm)



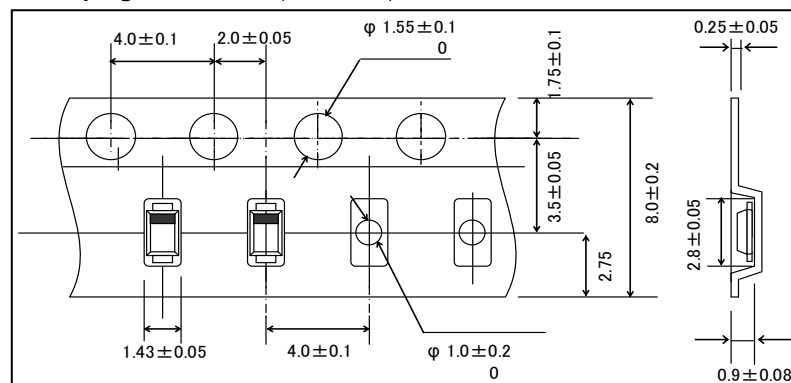
●Land Size Figure(Unit : mm)



●Structure



●Taping Dimensions(Unit : mm)



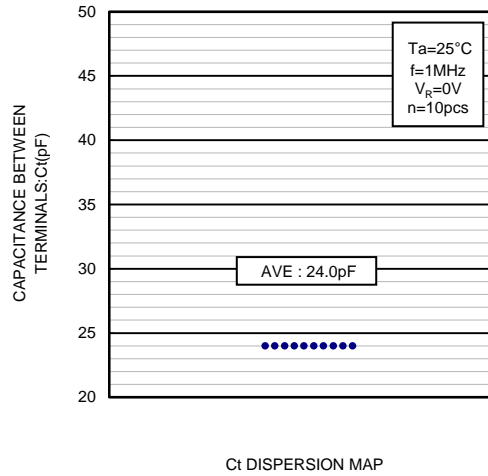
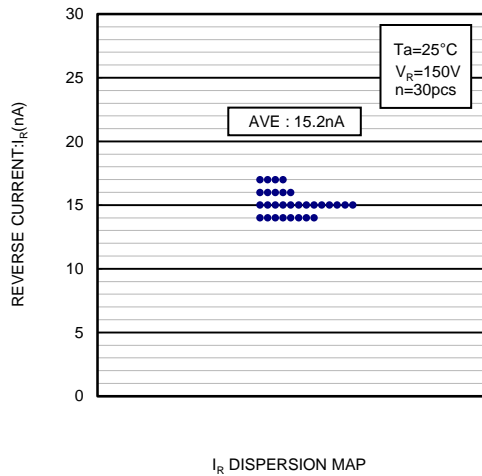
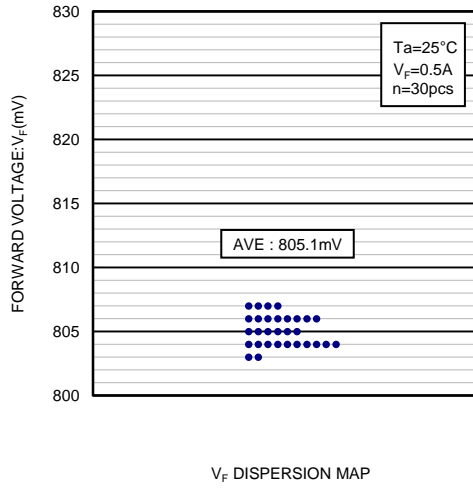
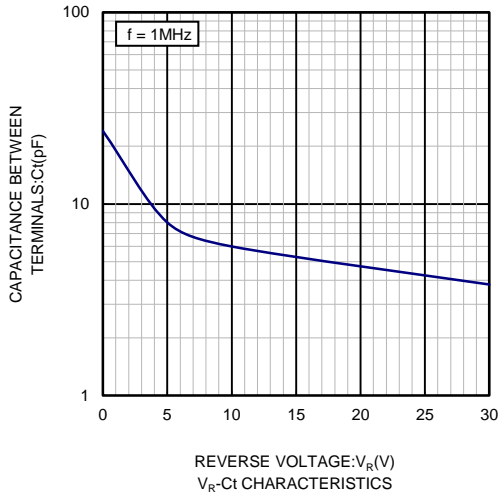
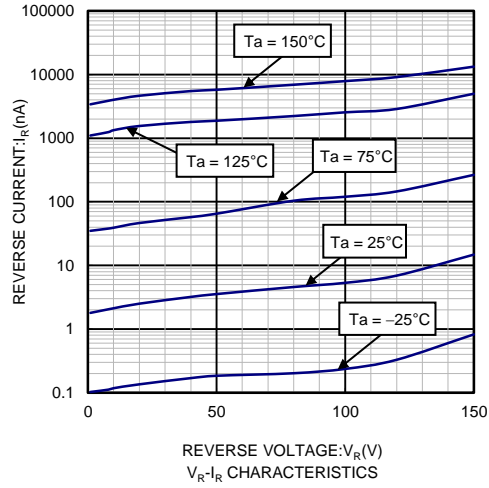
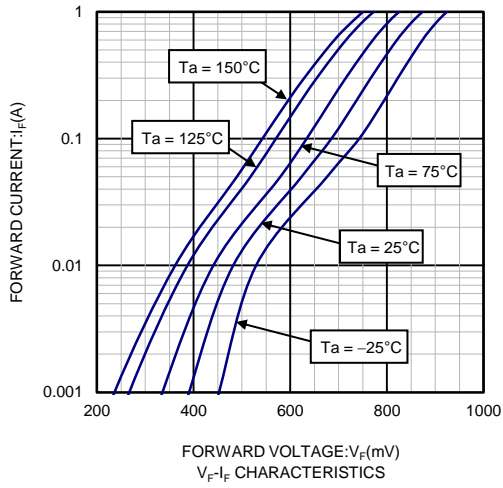
●Absolute Maximum Ratings(Ta=25°C)

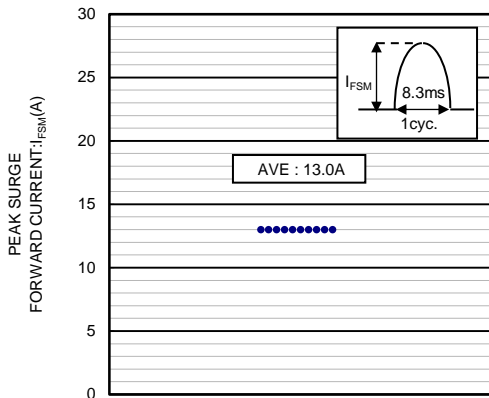
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	150	V
Reverse voltage (DC)	V_R	150	V
Average rectified forward current (*1)	I_o	0.5	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	3	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

(*1) Mounting on epoxy board. 180° Half sine wave

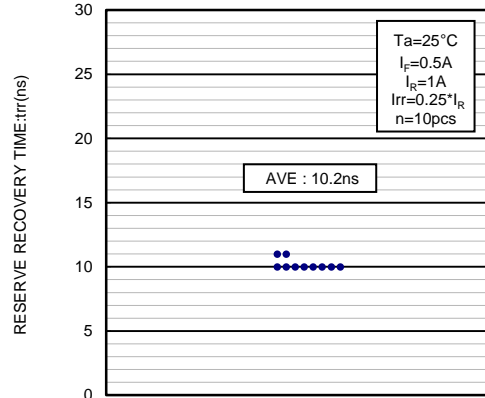
●Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.95	V	$I_F=0.5A$
Reverse current	I_R	-	-	0.5	μA	$V_R=150V$

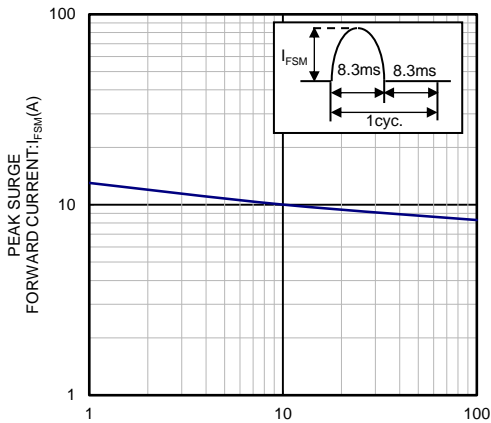




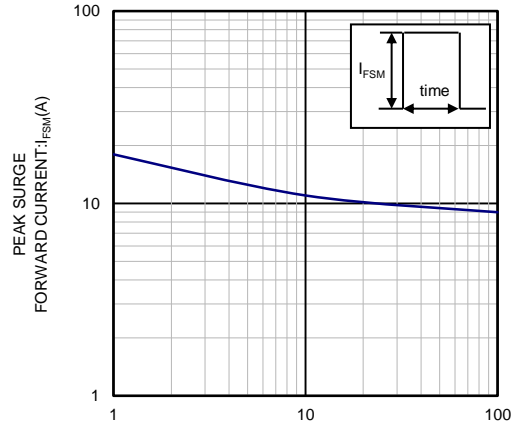
I_{FSM} DISRESION MAP



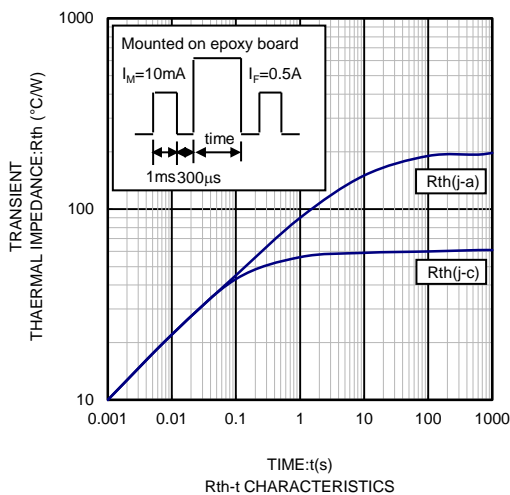
t_{rr} DISPERSION MAP



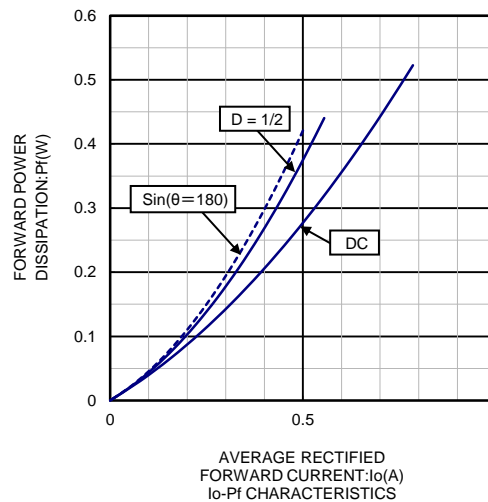
I_{FSM} -CYCLE CHARACTERISTICS



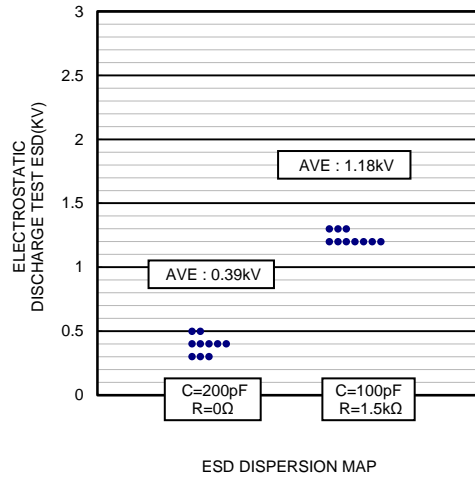
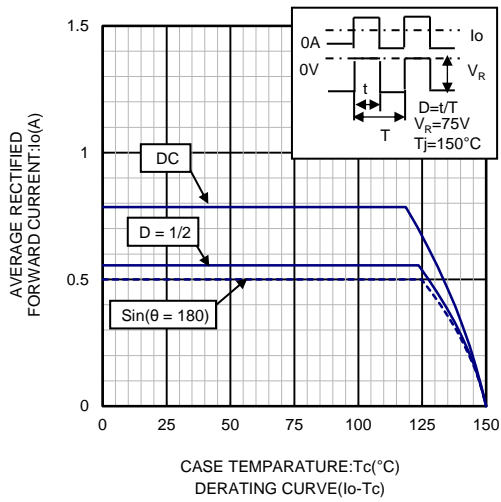
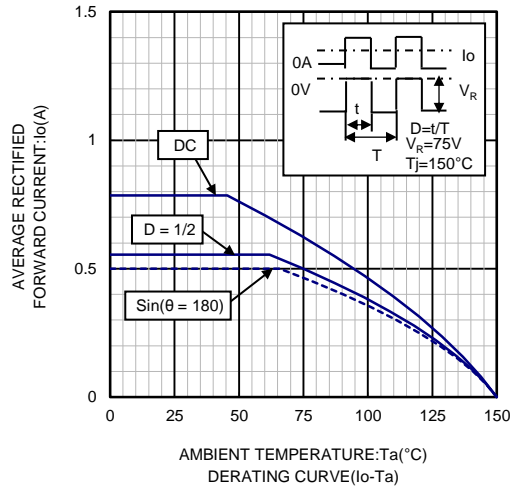
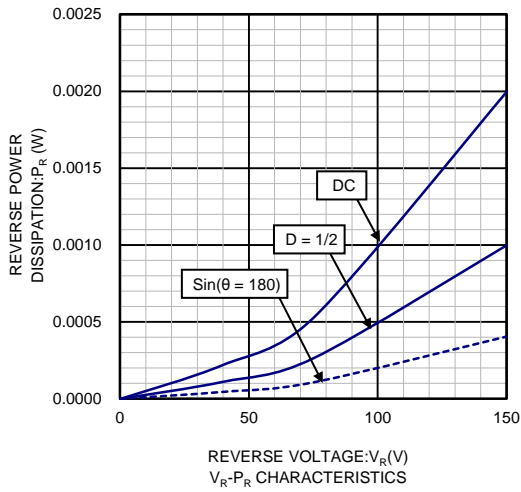
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT: I_o (A)
 I_o - P_f CHARACTERISTICS



Notes

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