

Schottky Barrier Diode

RB058L-40

● **Applications**

General rectification

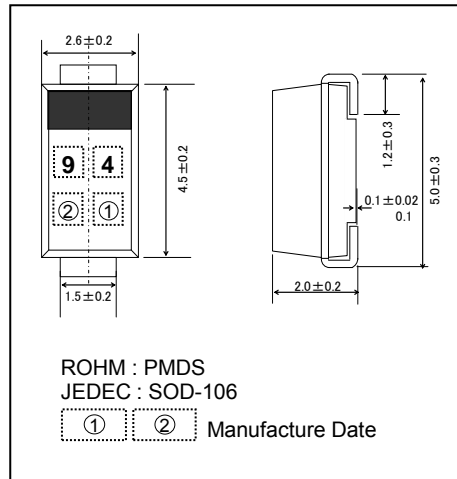
● **Features**

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

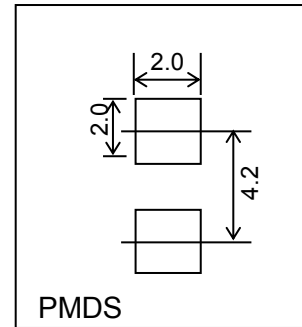
● **Construction**

Silicon epitaxial

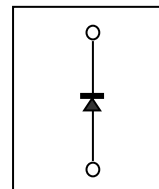
● **External Dimensions**(Unit : mm)



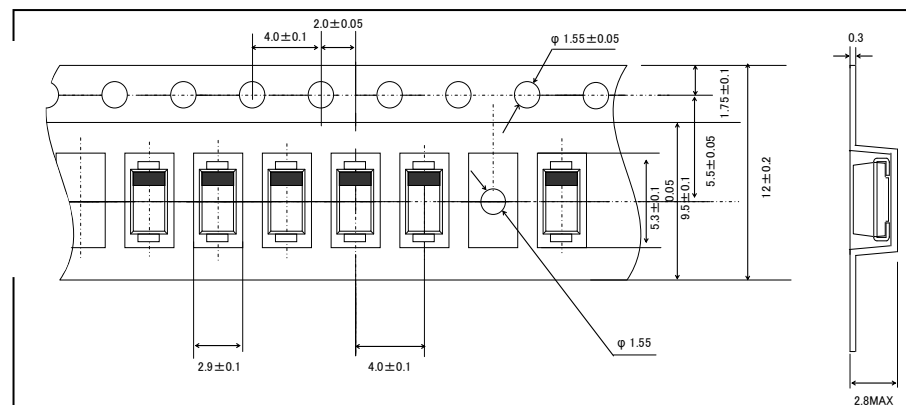
● **Land Size Figure**(Unit : mm)



● **Structure**



● **Taping Dimensions**(Unit : mm)



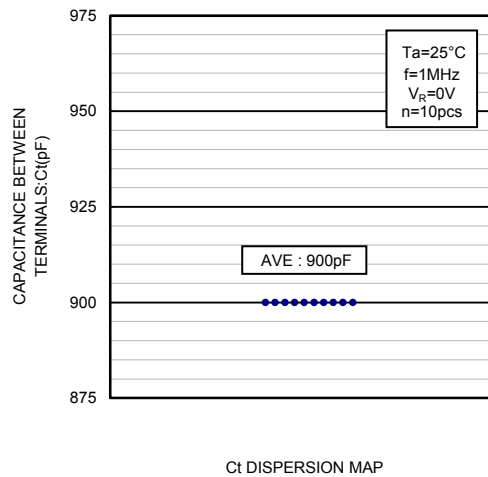
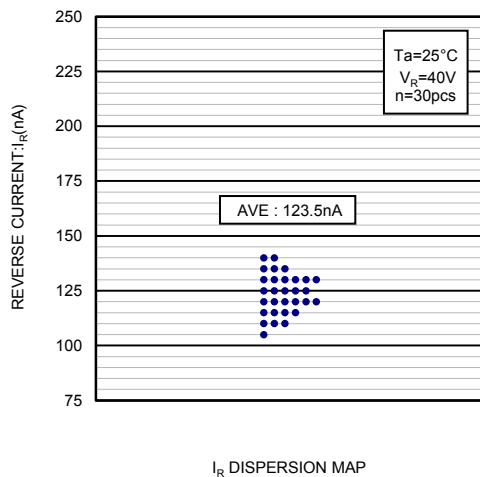
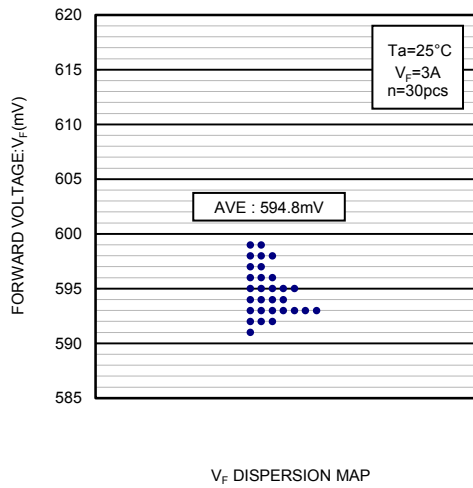
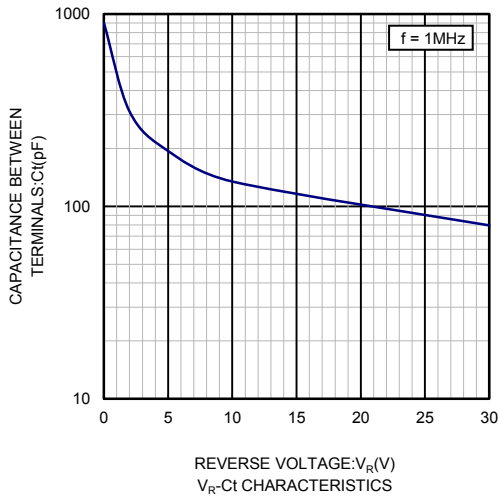
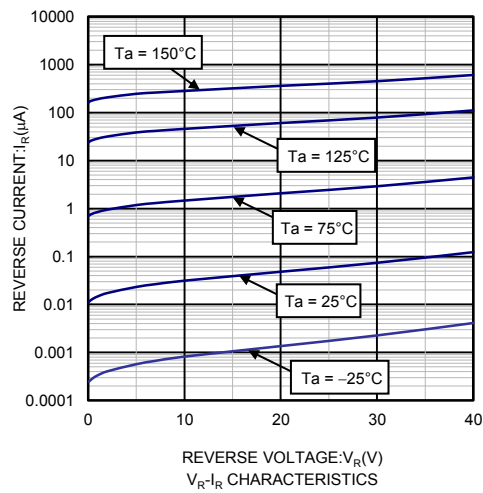
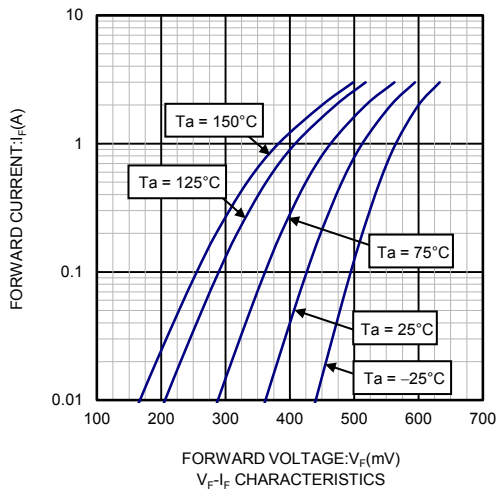
● **Absolute Maximum Ratings**(Ta=25°C)

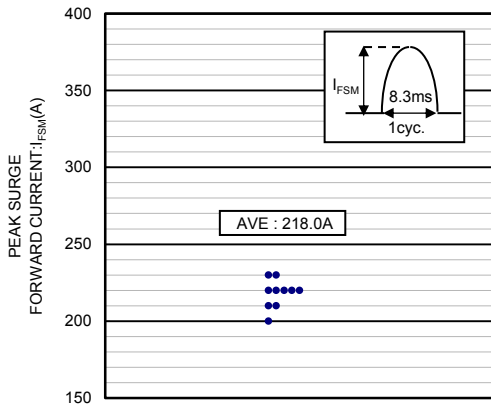
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	3	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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

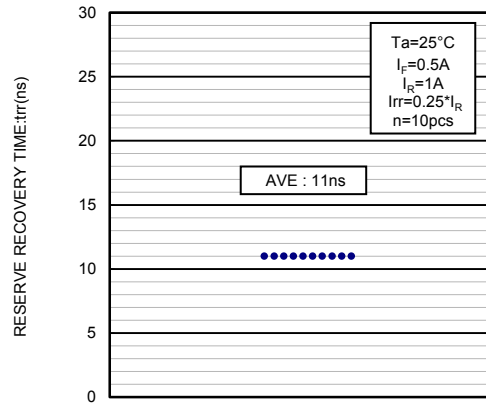
● **Electrical Characteristics**(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.70	V	$I_F=3.0A$
Reverse current	I_R	-	-	5.0	μA	$V_R=40V$

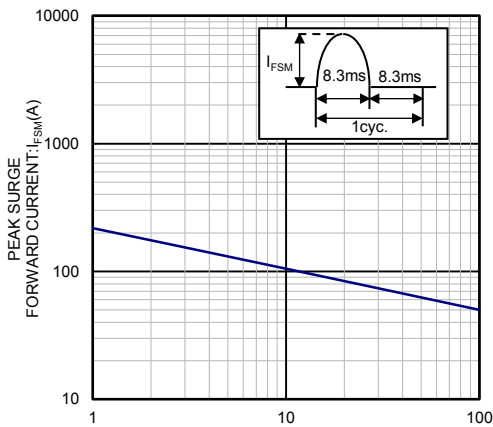




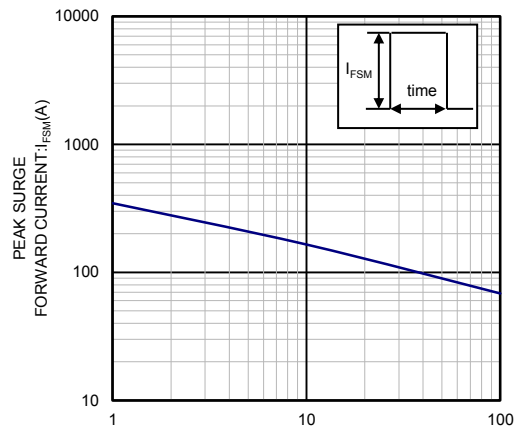
I_{FSM} DISRESION MAP



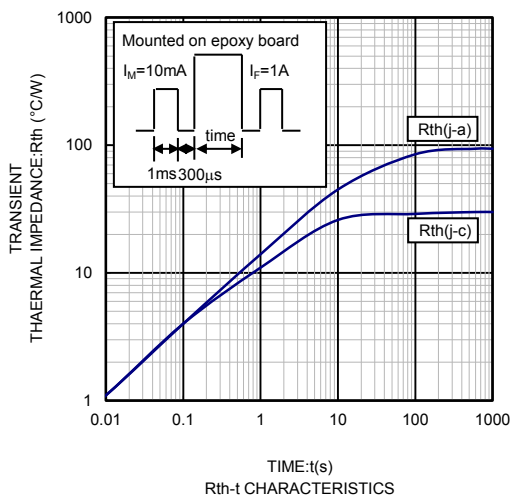
t_{rr} DISPERSION MAP



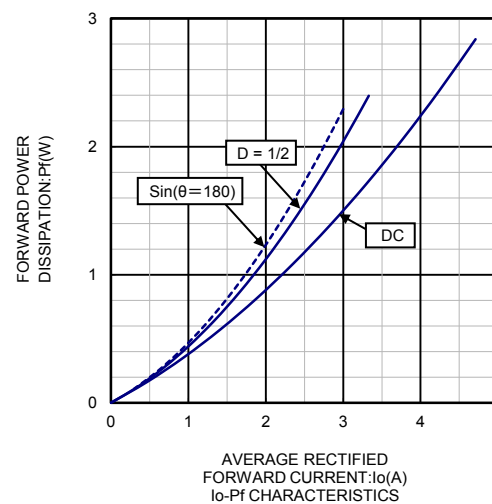
I_{FSM} -CYCLE CHARACTERISTICS



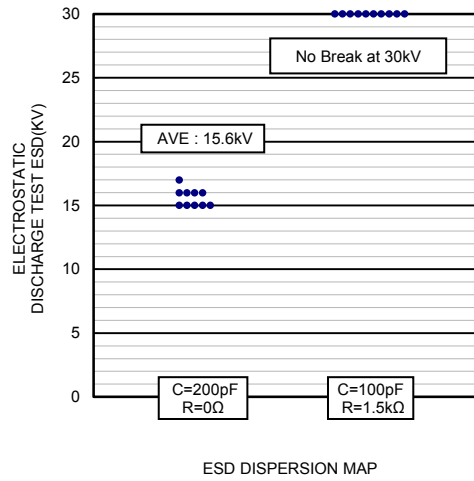
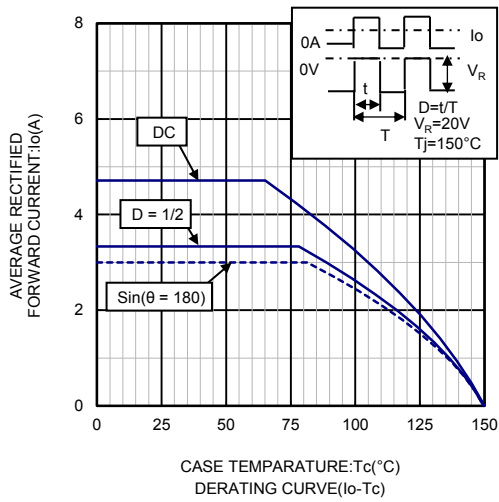
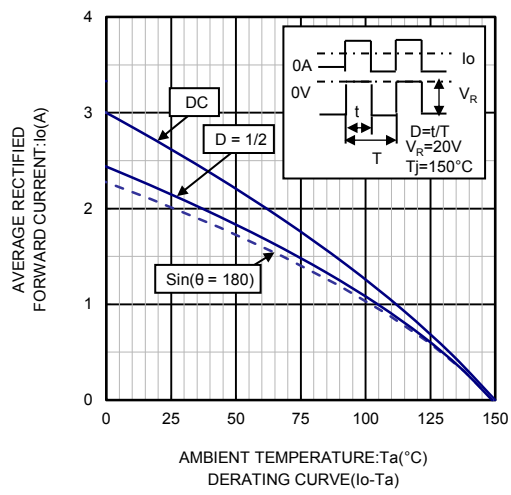
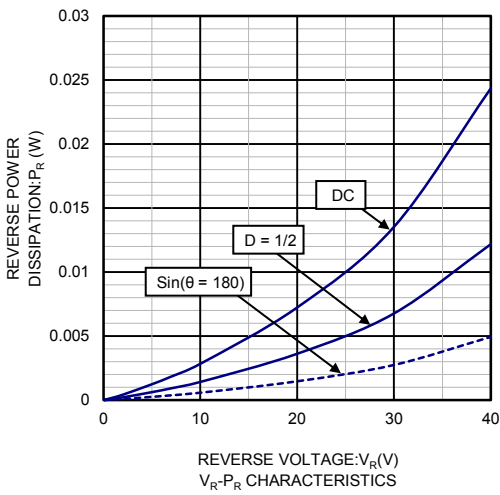
I_{FSM} - t CHARACTERISTICS



R_{th} - t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT: I_o -Pf CHARACTERISTICS



Notes

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