

Schottky Barrier Diode

RB168M150

●Applications

General rectification

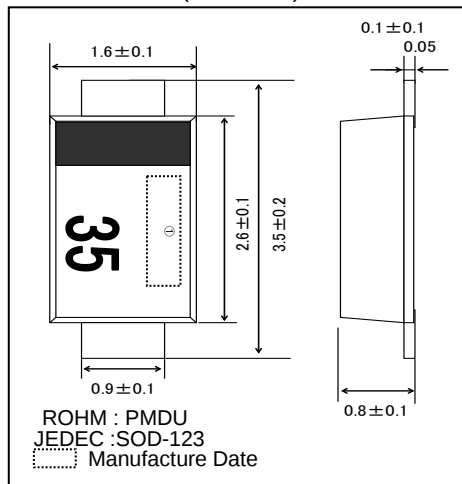
●Features

- 1) Small power mold type. (PMDU)
- 2) High reliability

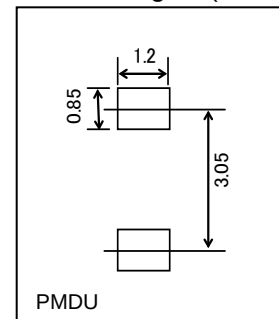
●Construction

Silicon epitaxial planer

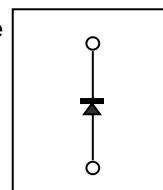
●Dimensions (Unit : mm)



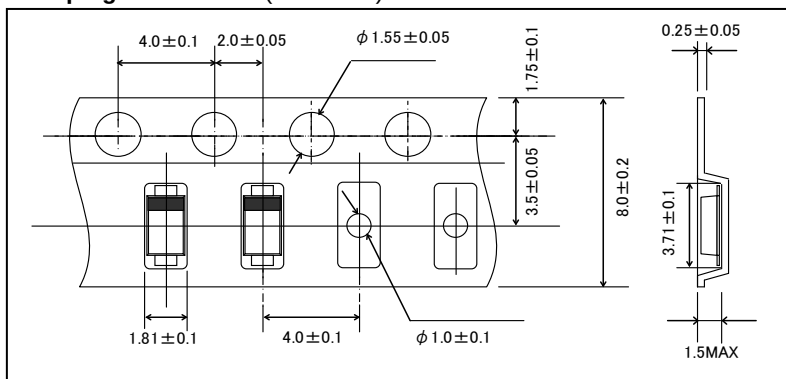
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



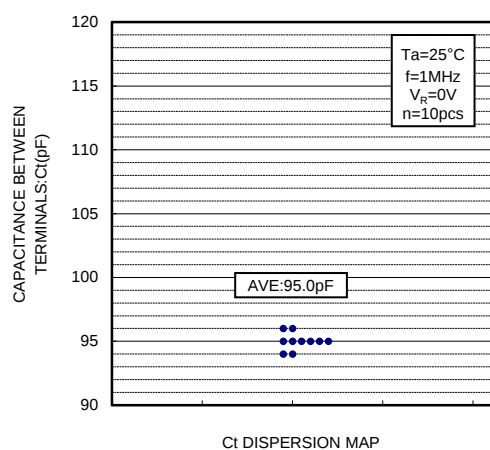
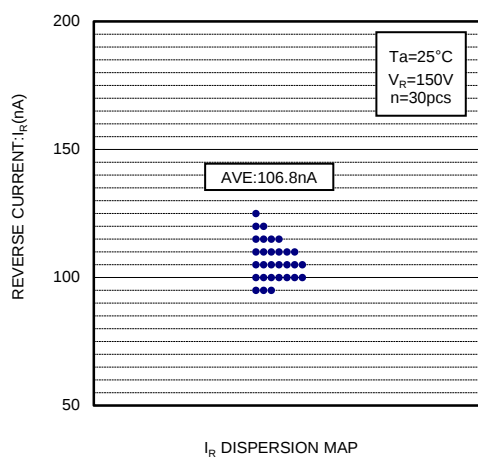
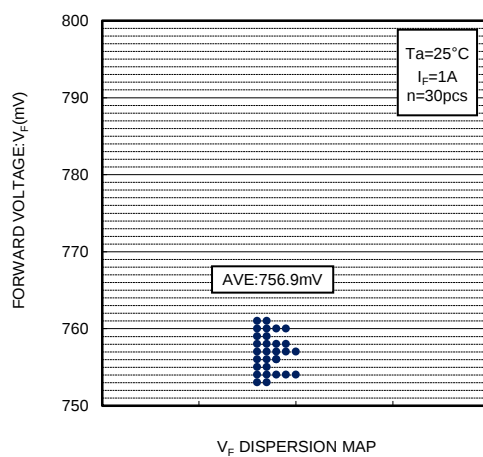
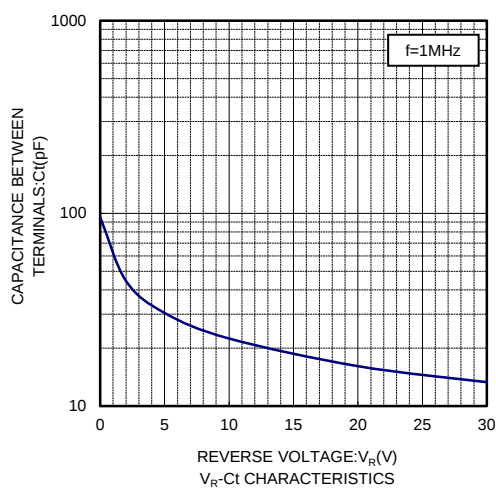
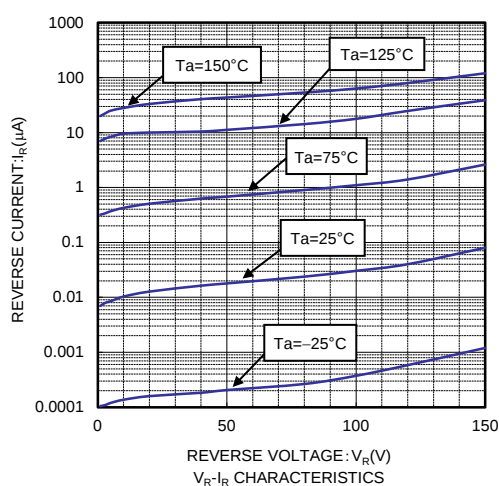
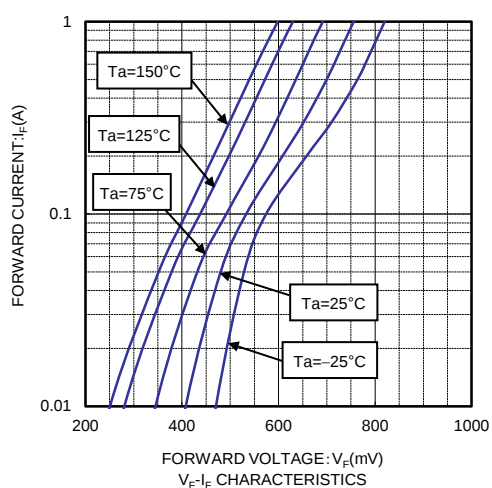
●Absolute maximum ratings (Ta=25°C)

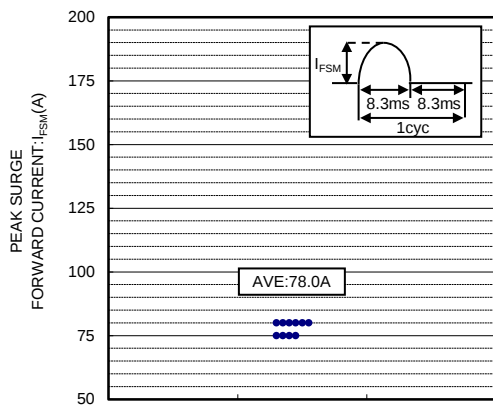
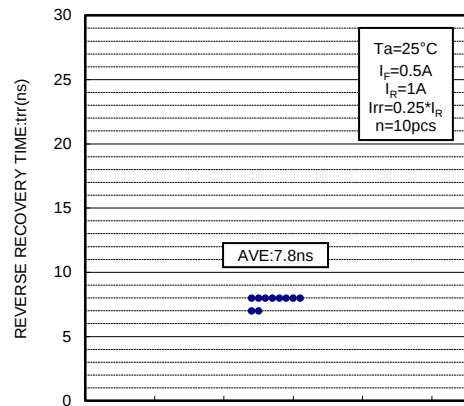
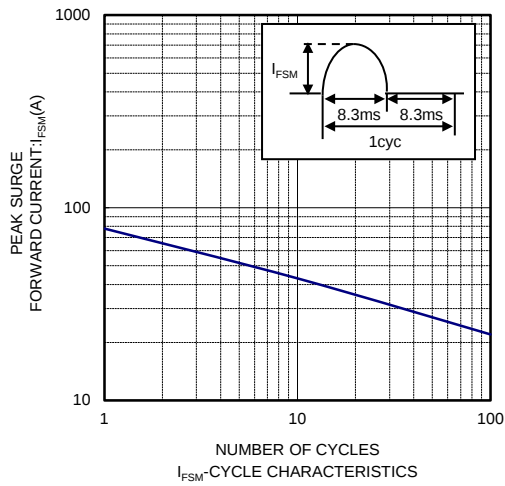
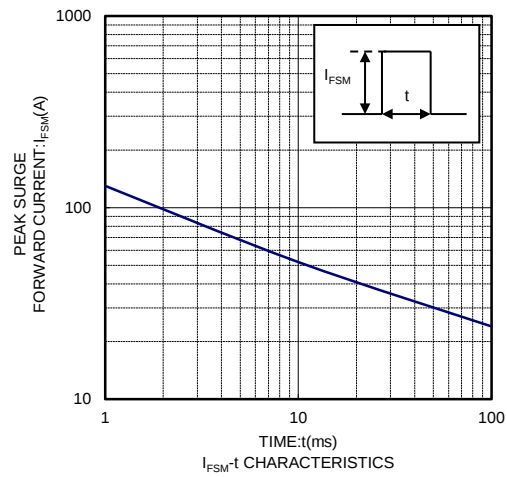
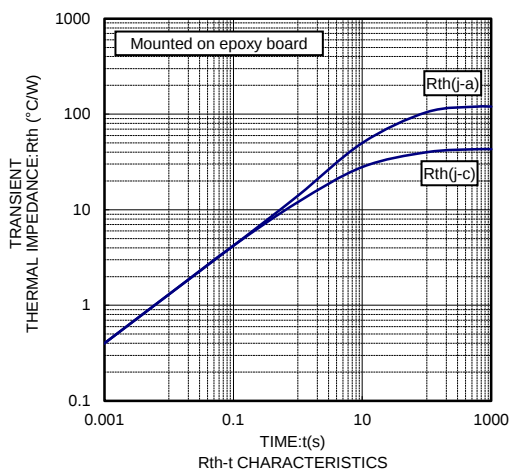
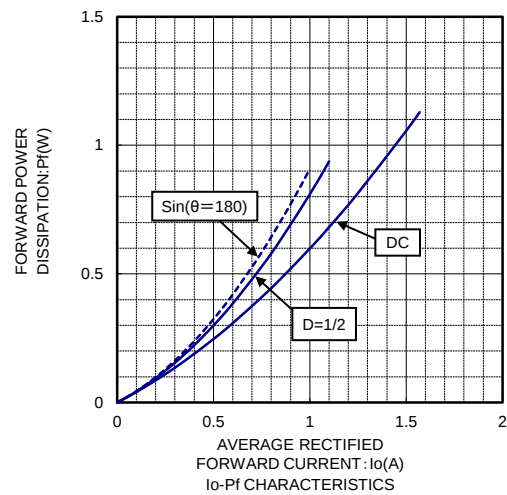
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	150	V
Reverse voltage (DC)	V_R	150	V
Average rectified forward current (*1)	I_O	1	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	30	A
Junction temperature	T_J	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C

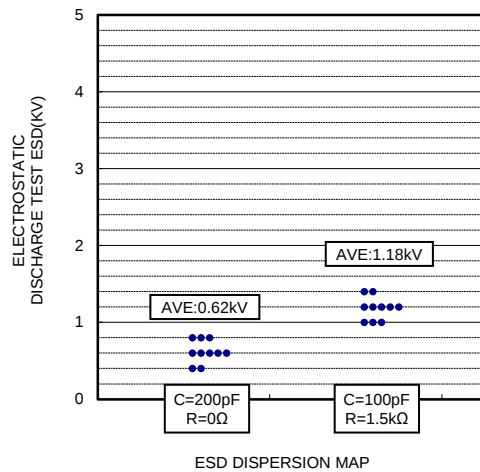
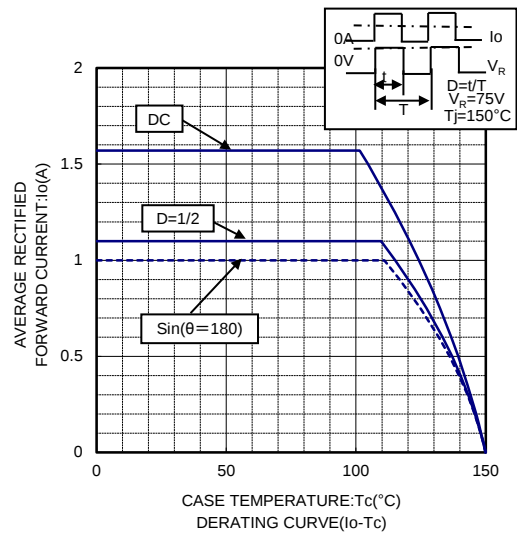
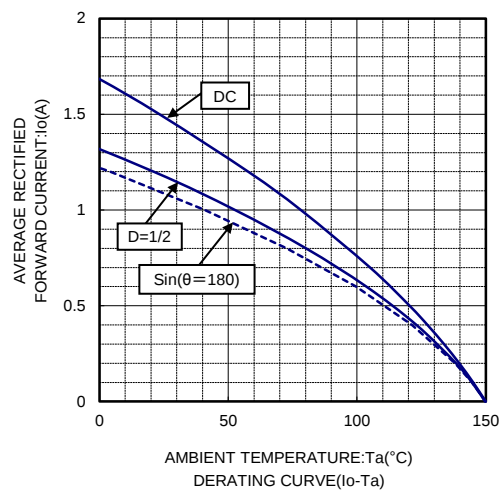
 (*1) Business frequency, R-road, $T_c=110^{\circ}\text{C}$ max.

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.76	0.84	V	$I_F=1\text{A}$
Reverse current	I_R	-	0.11	20	μA	$V_R=150\text{V}$



 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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