

Schottky Barrier Diode

RB168M-40

●Applications

General rectification

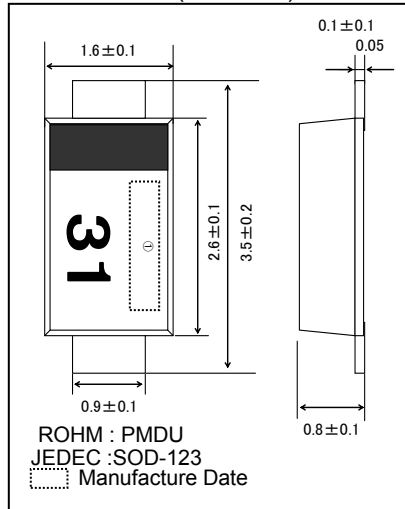
●Features

- 1) Small power mold type. (PMDU)
- 2) Low I_R
- 3) High reliability
- 4) AEC-Q101 qualified

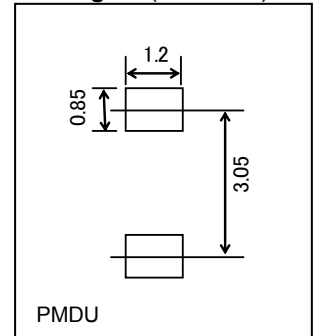
●Construction

Silicon epitaxial

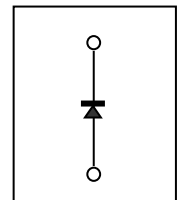
●Dimensions (Unit : mm)



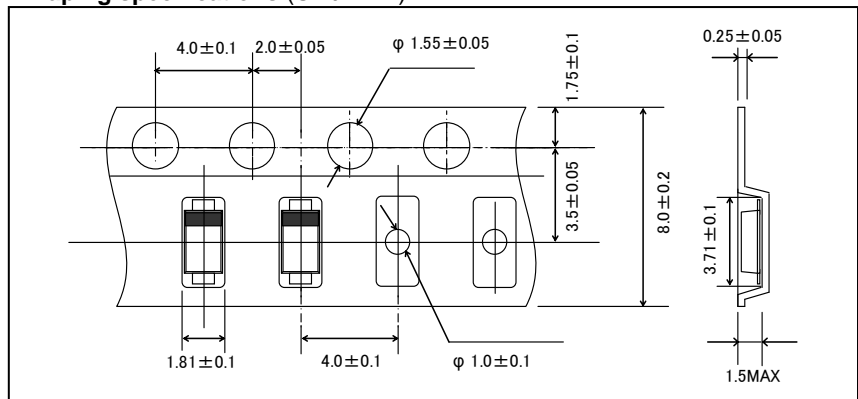
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



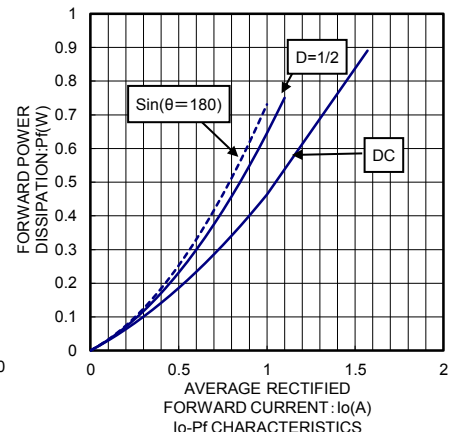
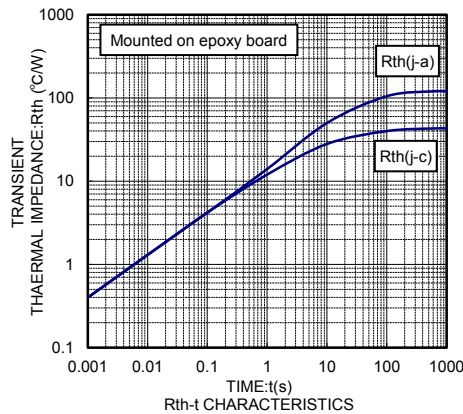
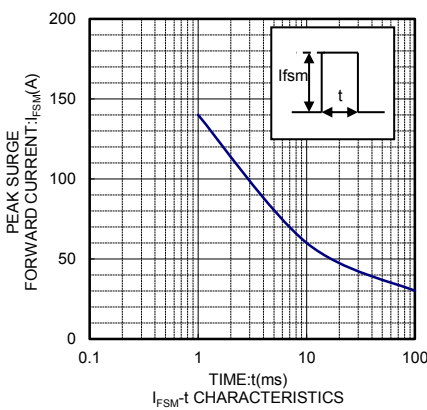
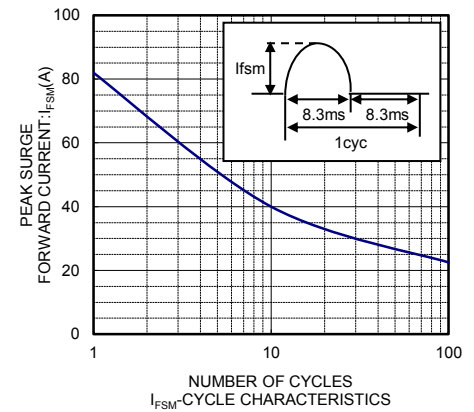
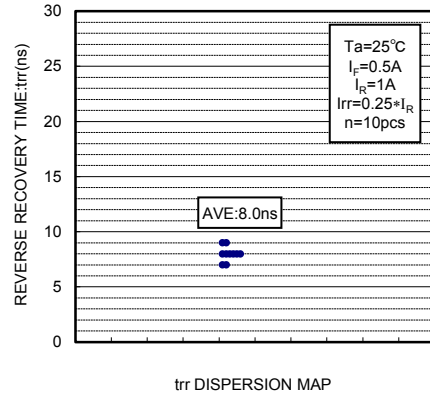
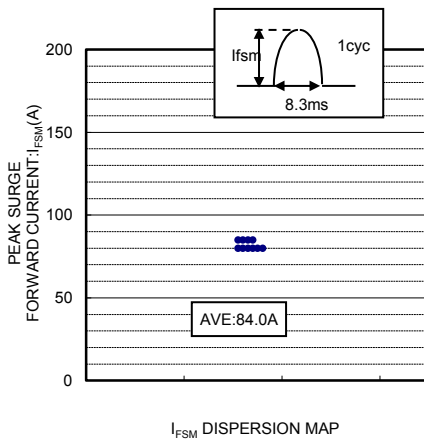
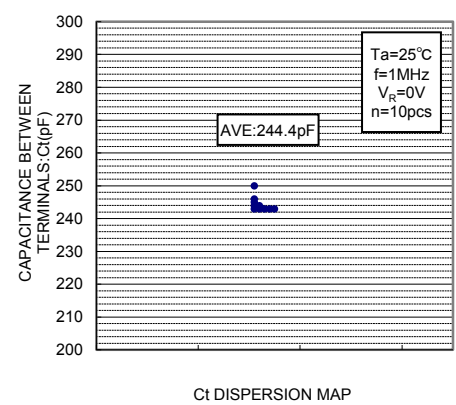
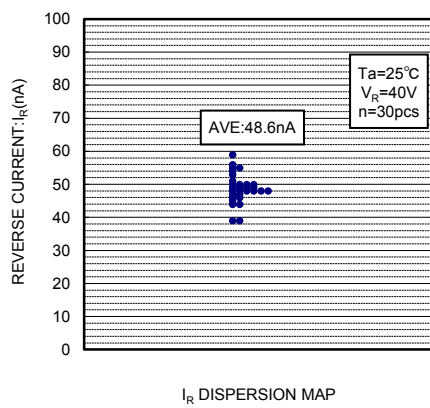
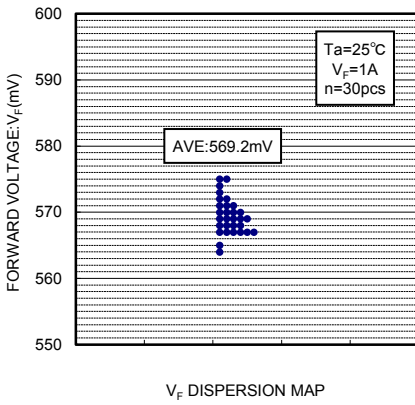
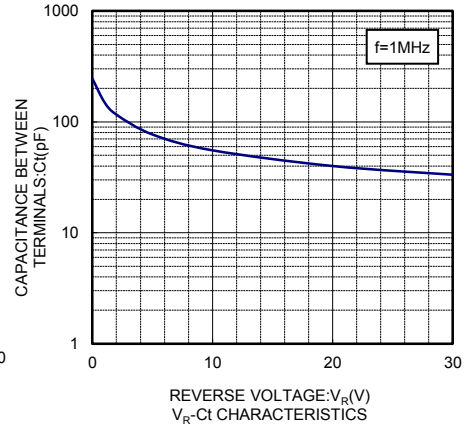
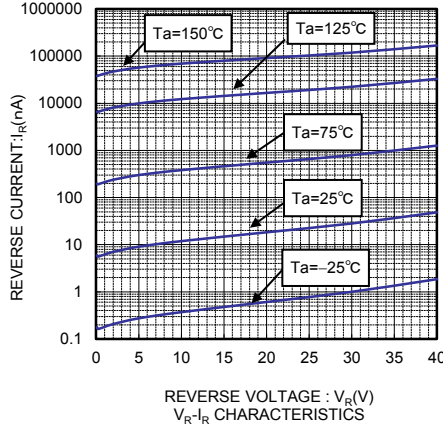
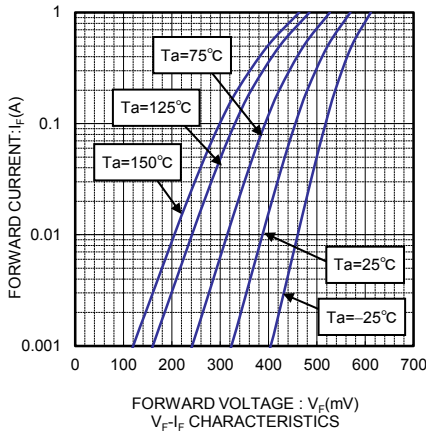
●Absolute maximum ratings (Ta=25°C)

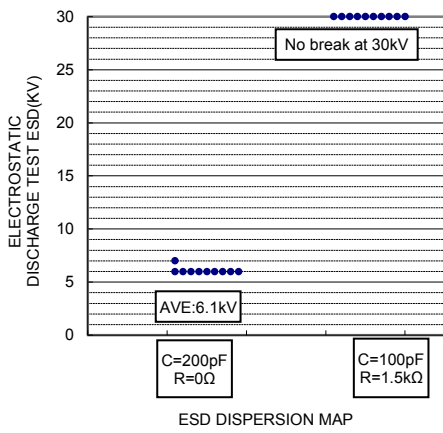
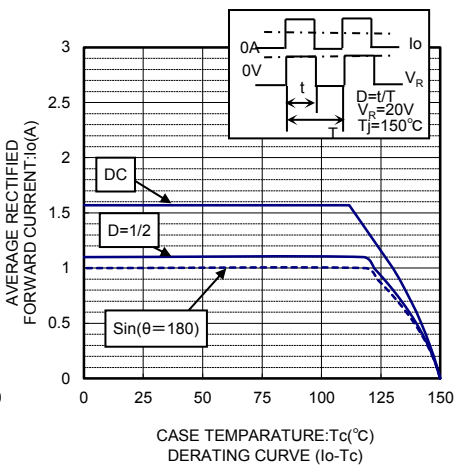
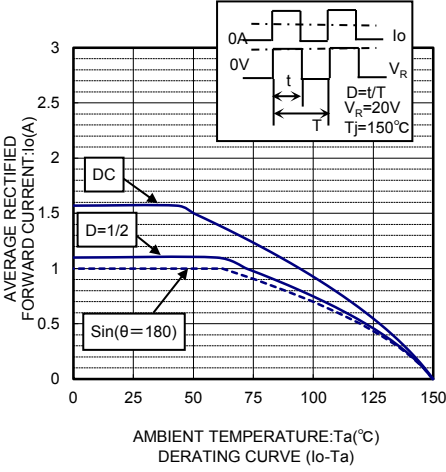
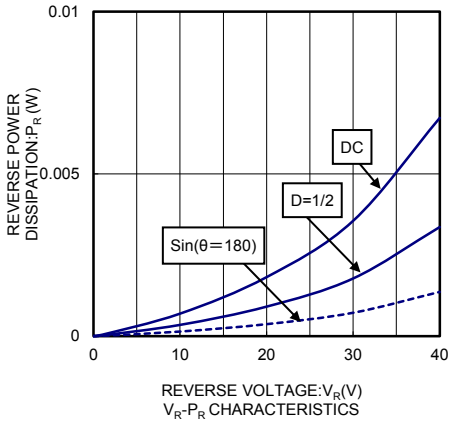
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current (*1)	I_o	1	A
Forward current surge peak (60Hz · 1cyc)	I_{FSM}	30	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

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

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.60	0.65	V	$I_F=1.0A$
Reverse current	I_R	-	0.05	0.55	μA	$V_R=40V$





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