

# Schottky Barrier Diode

**RB168M-40**

## ●Applications

General rectification

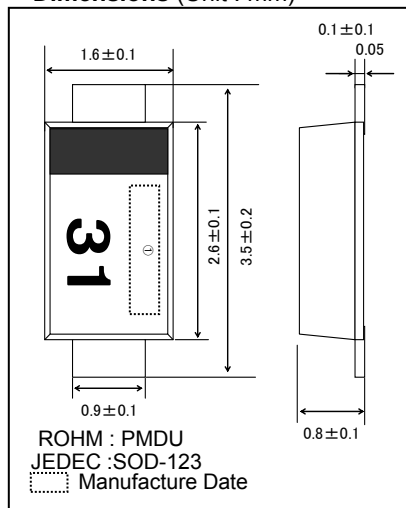
## ●Features

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

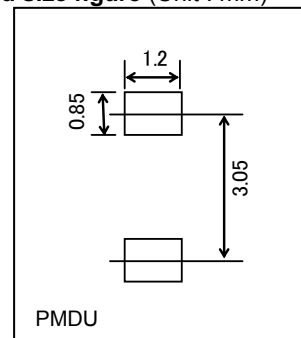
## ●Construction

Silicon epitaxial

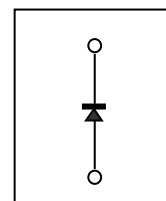
## ●Dimensions (Unit : mm)



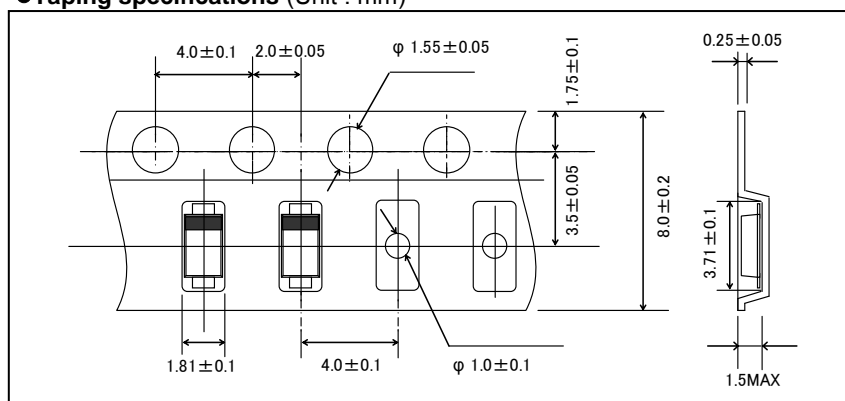
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping specifications (Unit : mm)



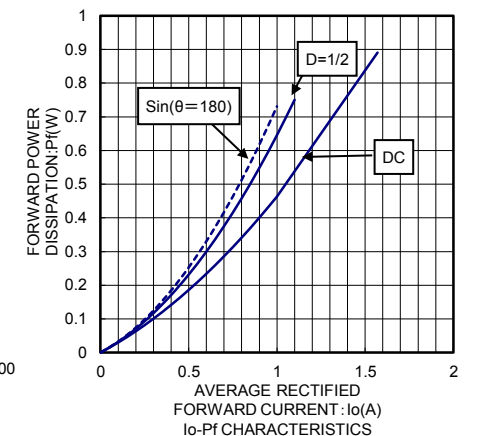
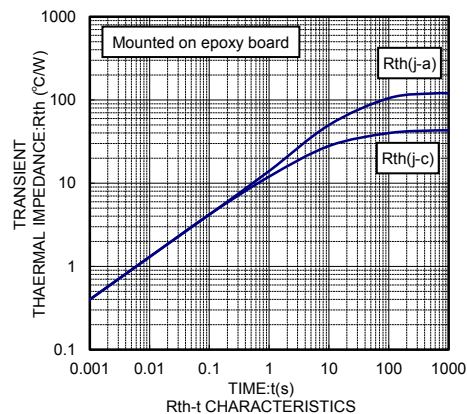
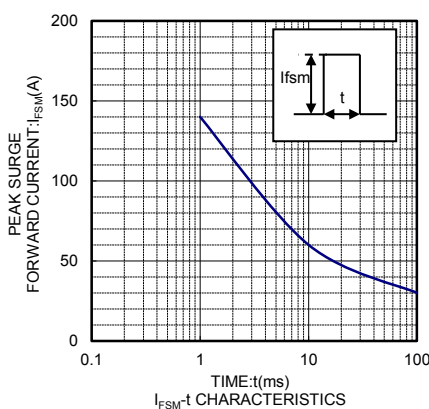
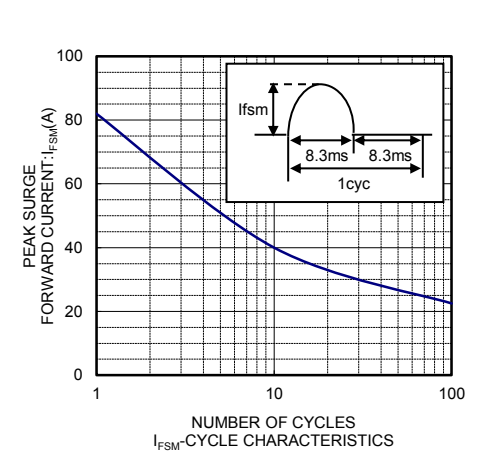
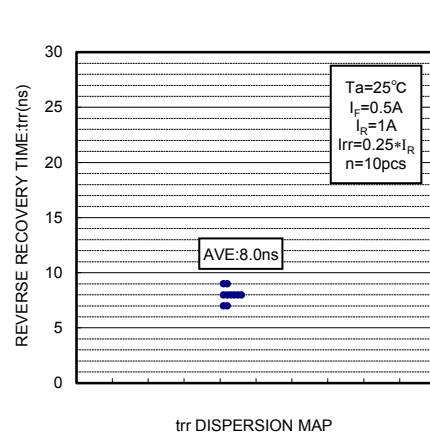
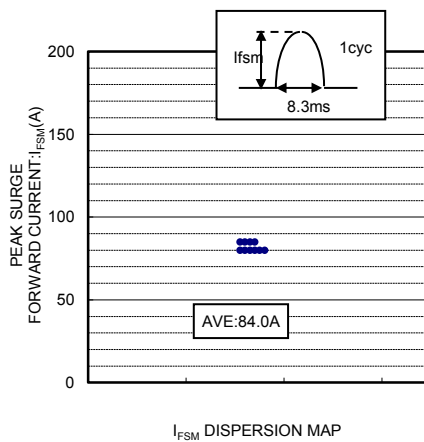
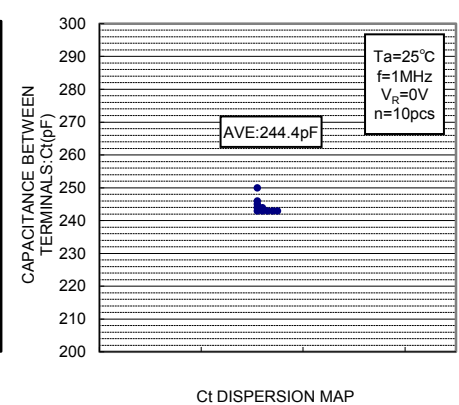
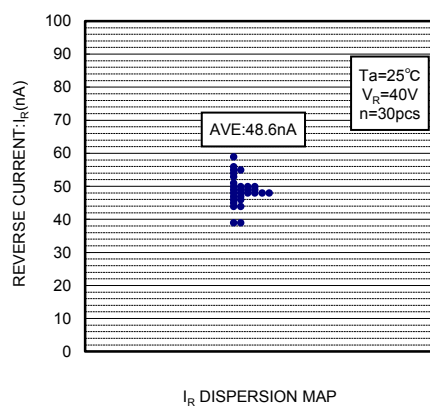
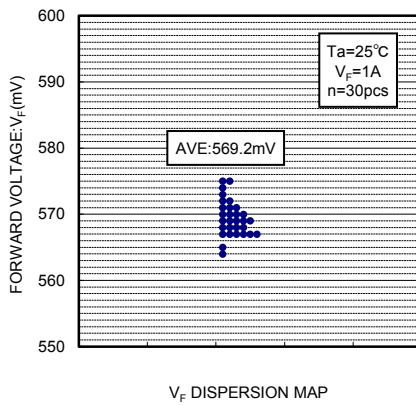
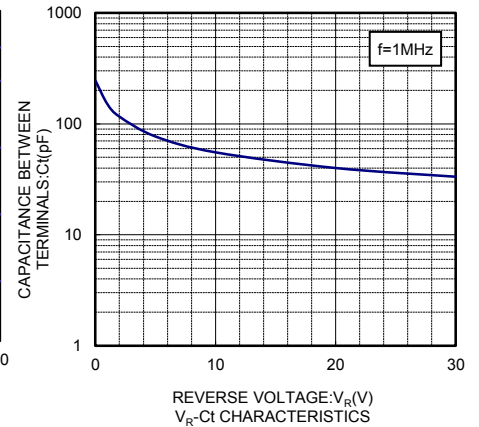
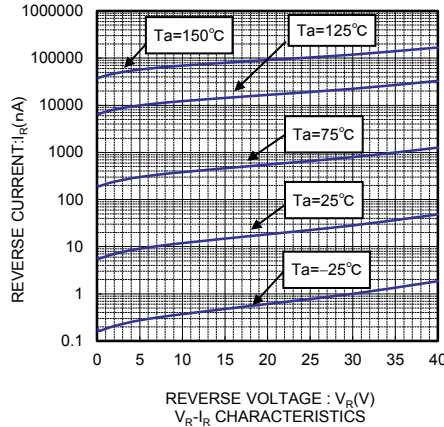
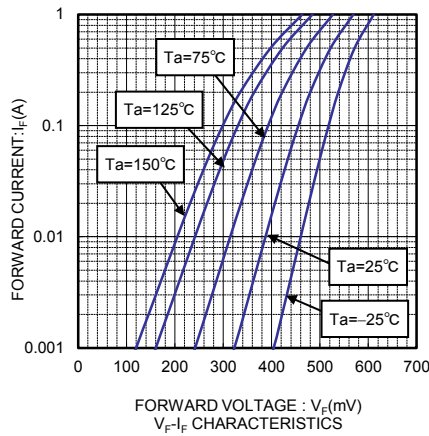
## ●Absolute maximum ratings (Ta=25°C)

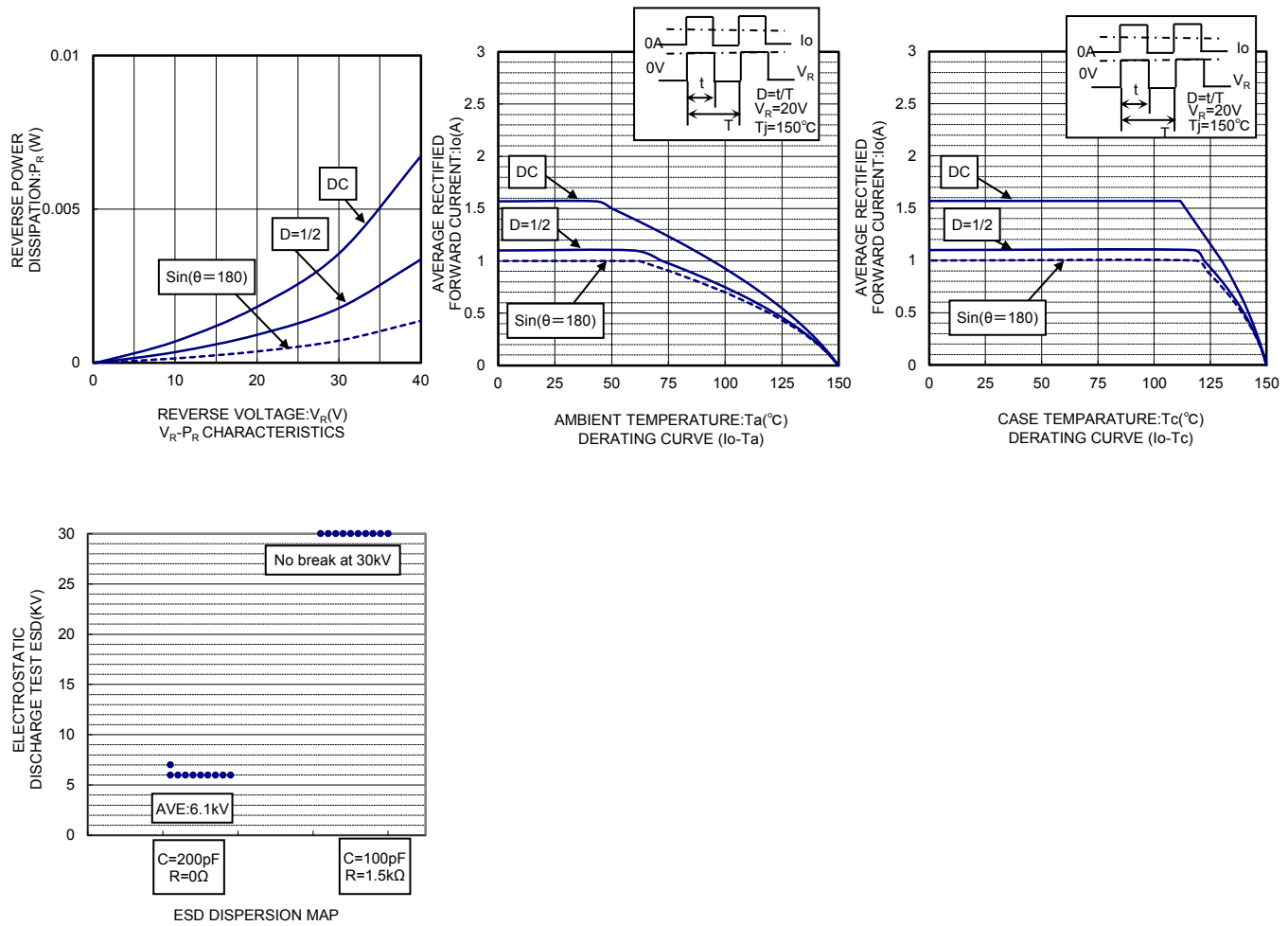
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	1	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	30	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

(\*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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