

# Schottky Barrier Diode

## RB162M-40

**●Applications**

General rectification

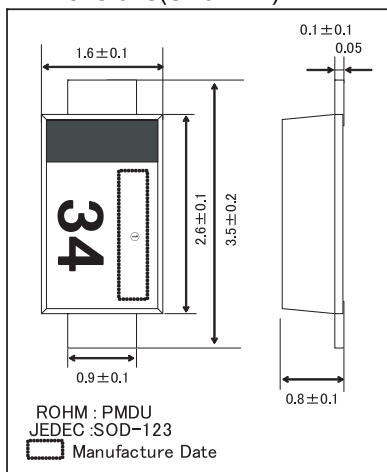
**●Features**

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

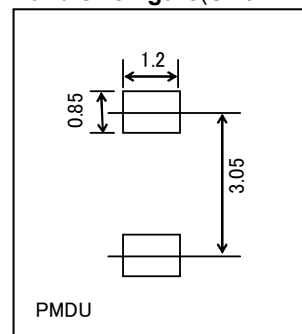
**●Construction**

Silicon epitaxial planer

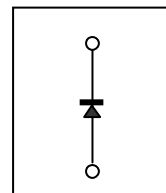
**●Dimensions(Unit : mm)**



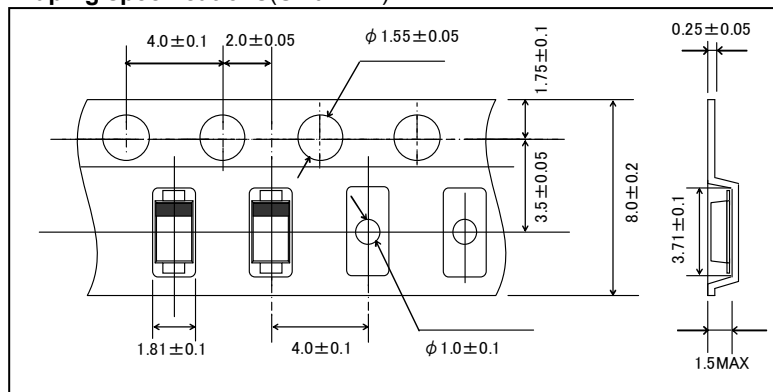
**●Land size figure(Unit : mm)**



**●Structure**



**●Taping specifications(Unit : mm)**



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

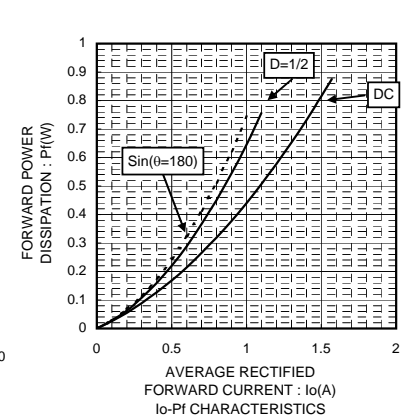
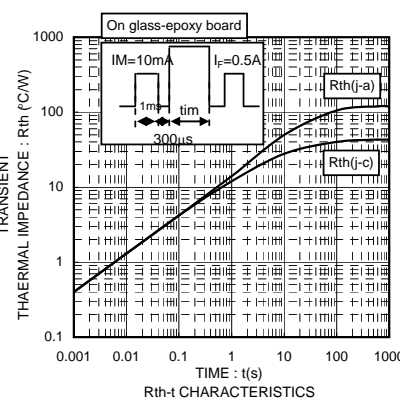
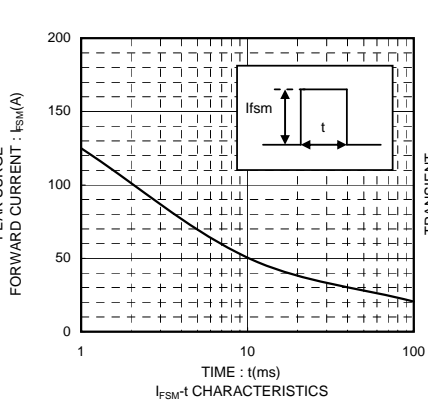
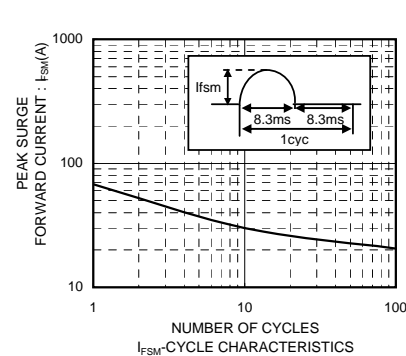
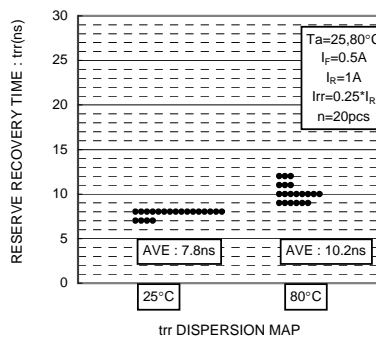
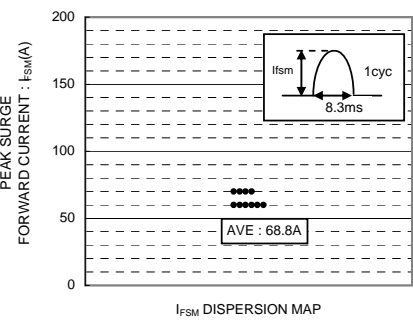
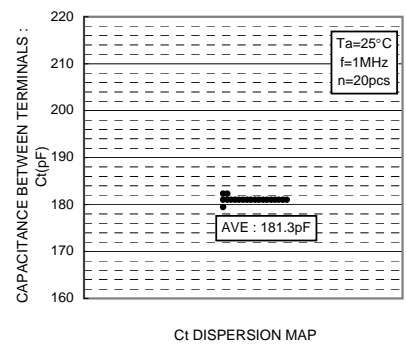
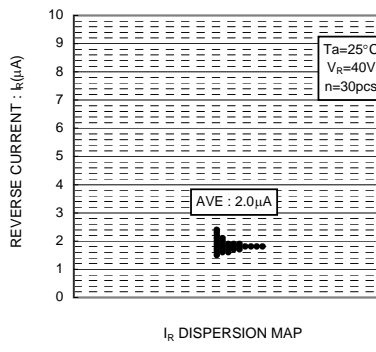
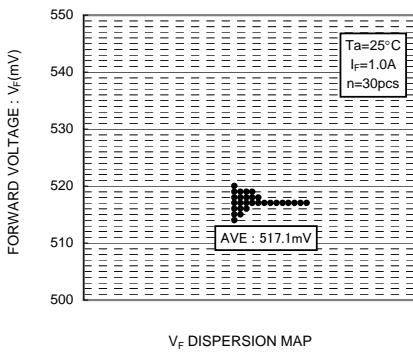
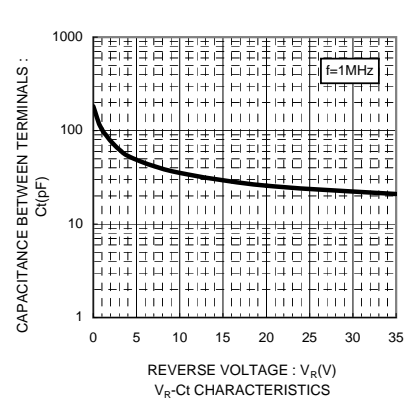
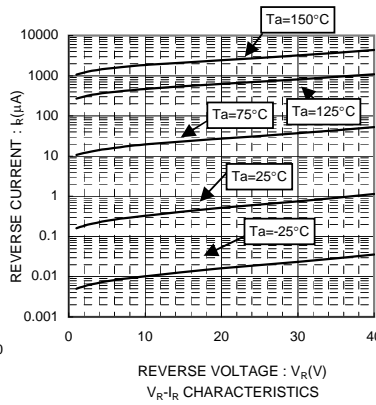
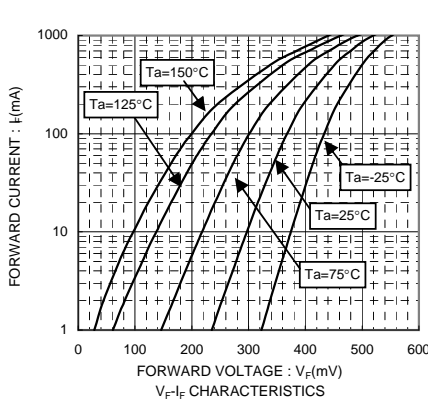
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_O$	1	A
Forward current surge peak (60Hz / 1cyc)	$I_{FSM}$	30	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40to+150	°C

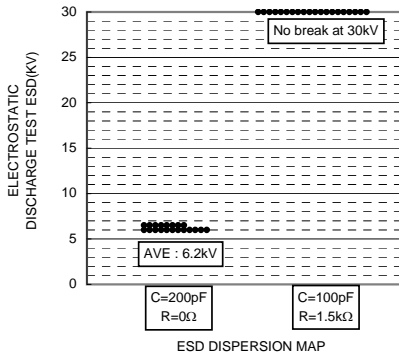
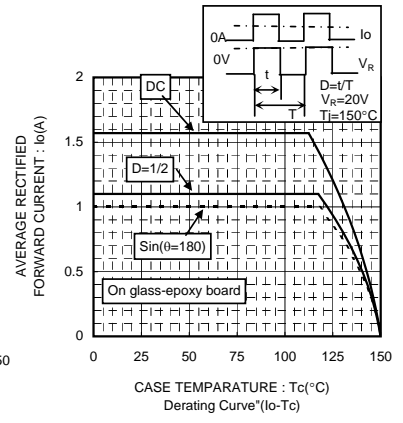
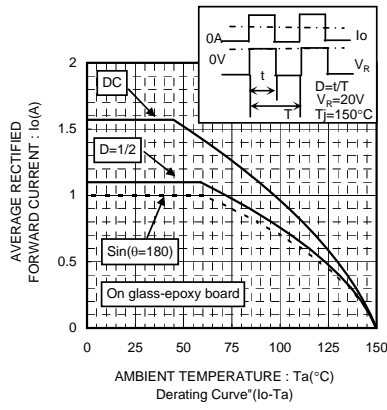
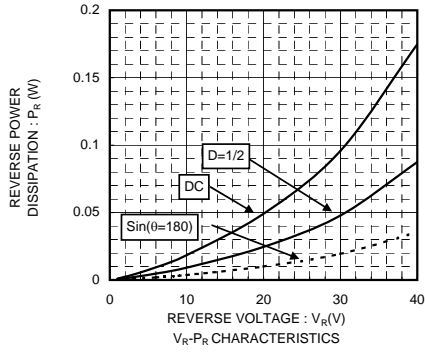
(\*1) Mounting on epoxy board. ( $T_c=100^\circ\text{C MAX}$ )

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.55	V	$I_F=1\text{A}$
Reverse current	$I_R$	-	-	100	$\mu\text{A}$	$V_R=40\text{V}$

●Electrical characteristics curves





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