

# Schottky barrier diode

## RB160M-40

### ●Applications

General rectification

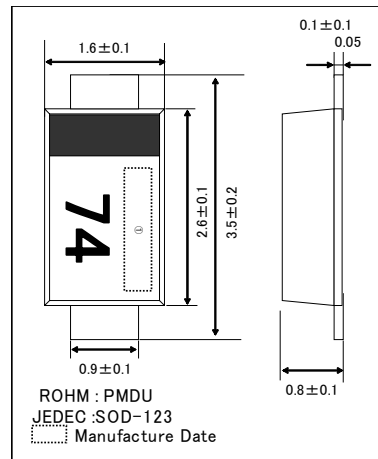
### ●Features

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

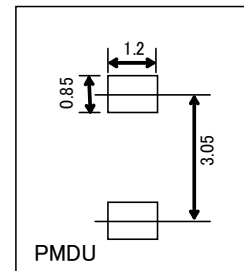
### ●Construction

Silicon epitaxial planar

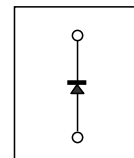
### ●Dimensions (Unit : mm)



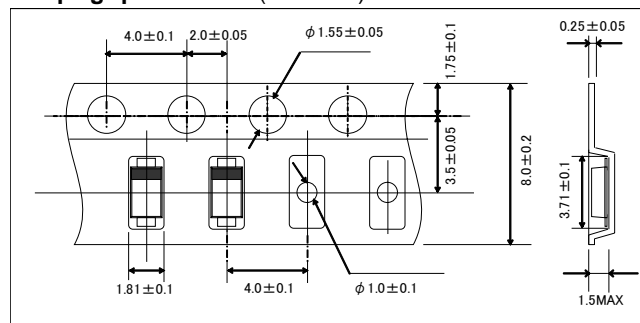
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



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

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

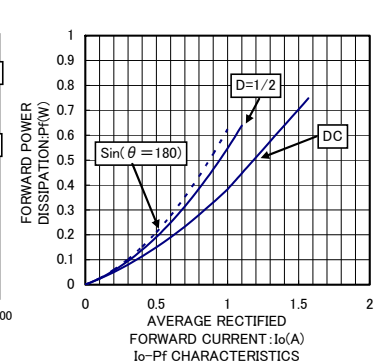
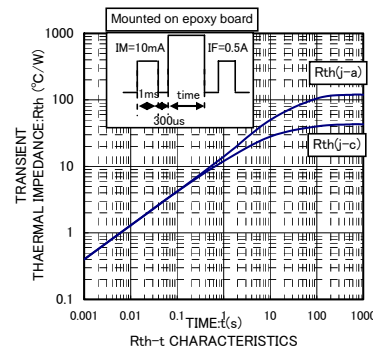
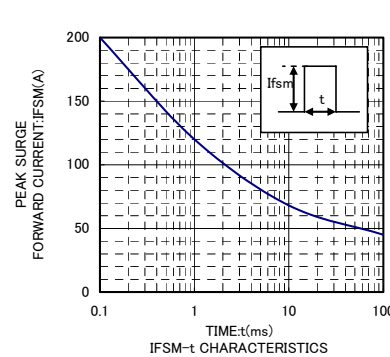
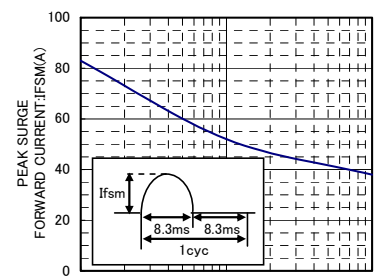
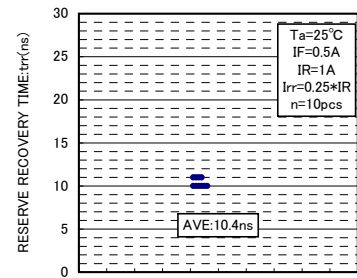
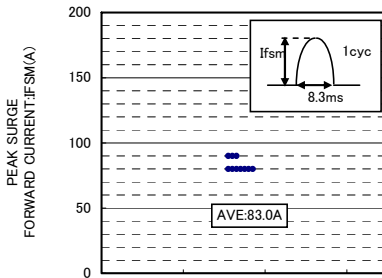
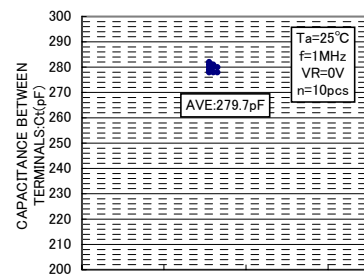
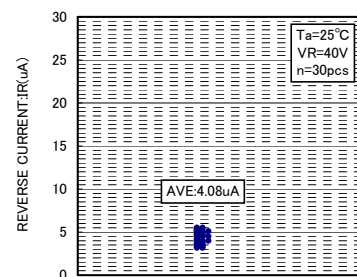
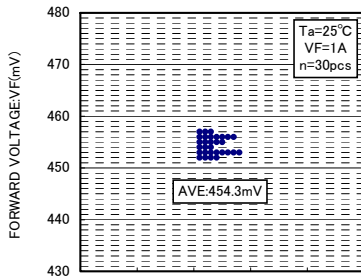
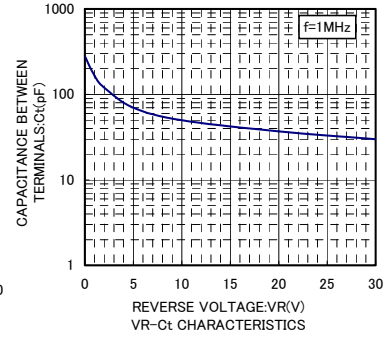
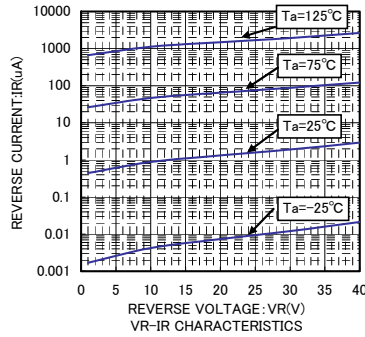
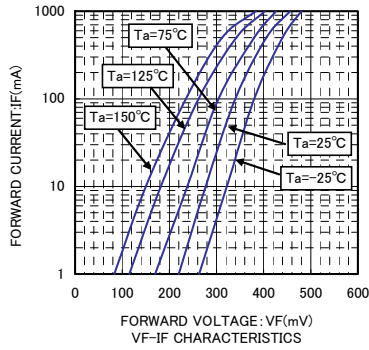
(\*1) Mounted on epoxy board. 180°Half sine wave

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

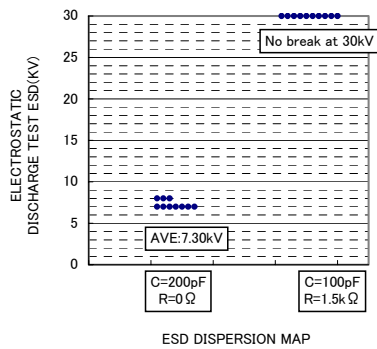
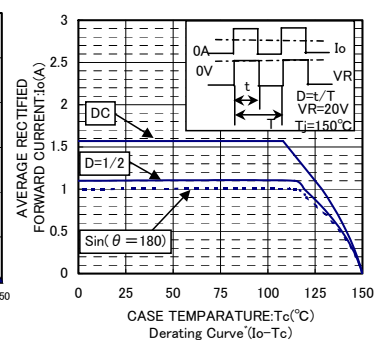
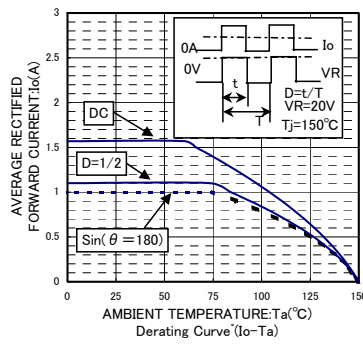
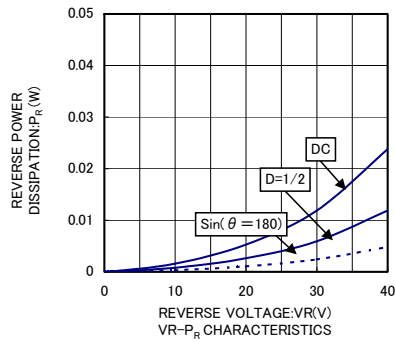
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.46	0.51	V	$I_F=1.0A$
Reverse current	$I_R$	-	4.0	30	μA	$V_R=40V$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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