

# Schottky barrier diode

## RB060M-30

### ●Applications

General rectification

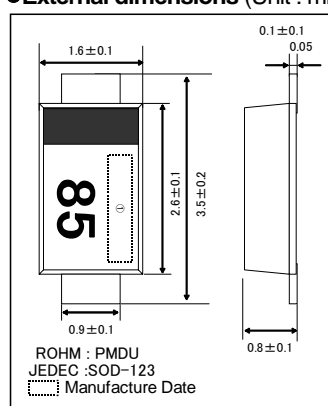
### ●Features

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

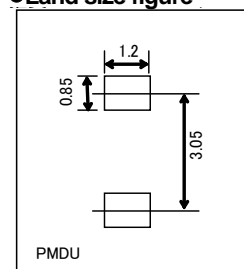
### ●Construction

Silicon epitaxial planar

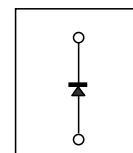
### ●External dimensions (Unit : mm)



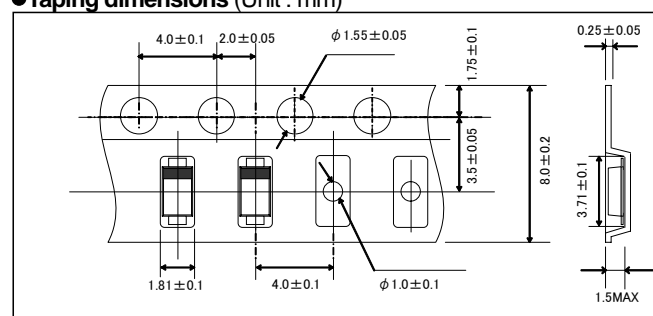
### ●Land size figure



### ●Structure



### ●Taping dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	2	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	55	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

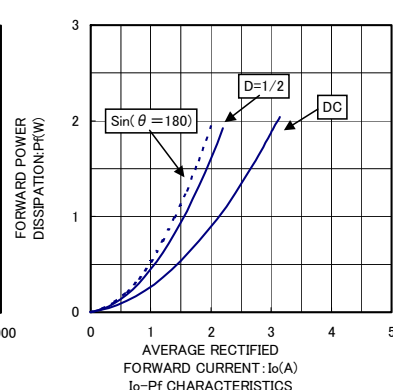
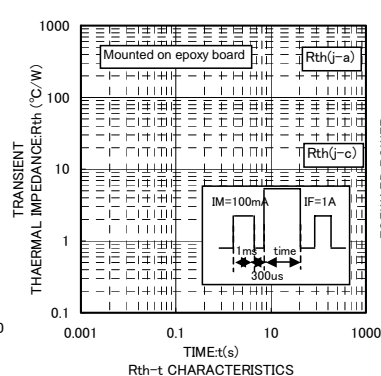
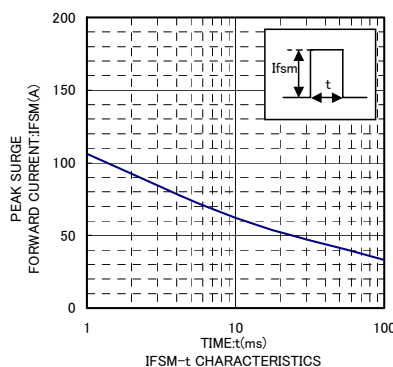
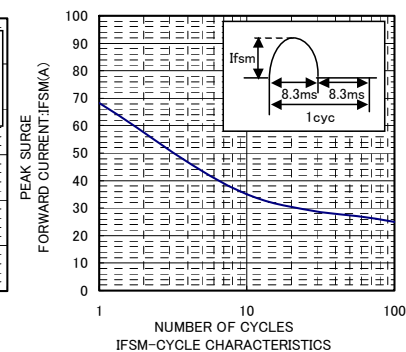
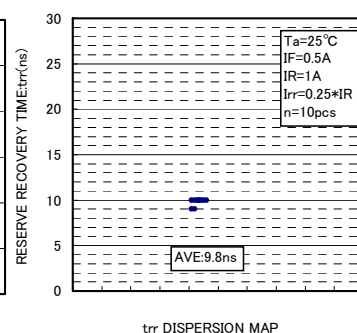
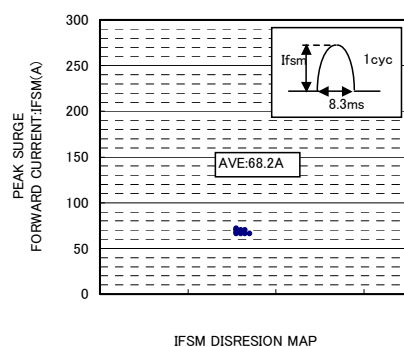
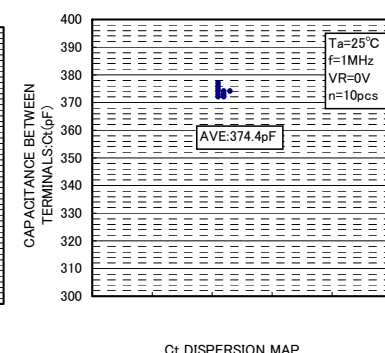
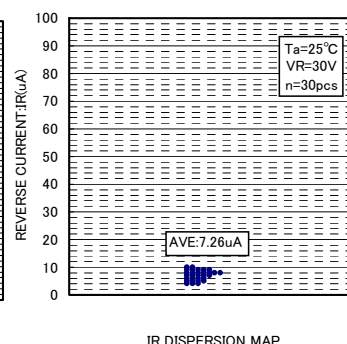
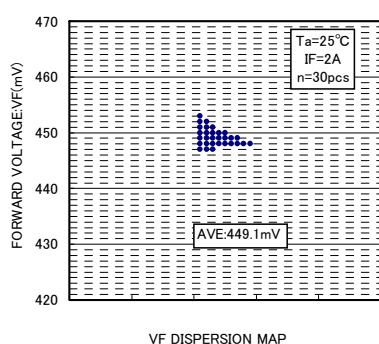
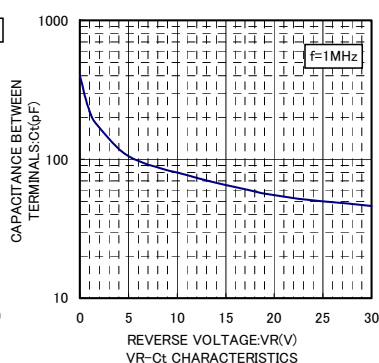
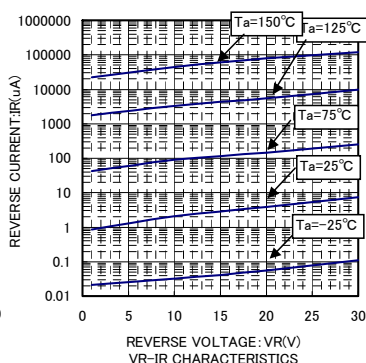
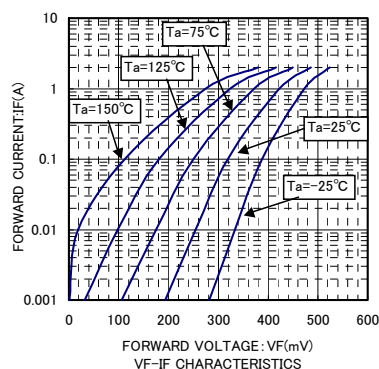
(\*1)  $T_c=65^\circ\text{C}$  MAX. Mounted on epoxy board. 180° Half sine wave

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

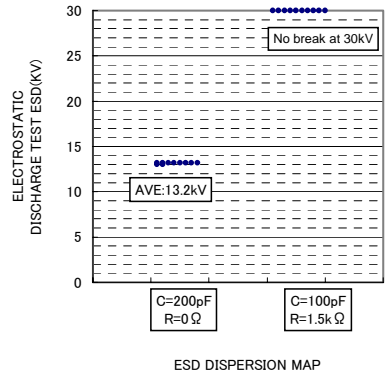
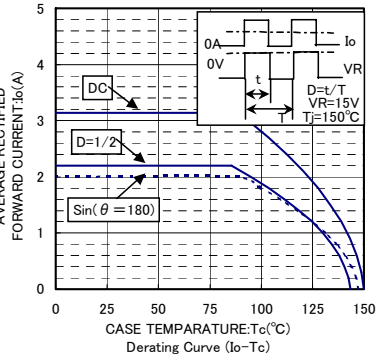
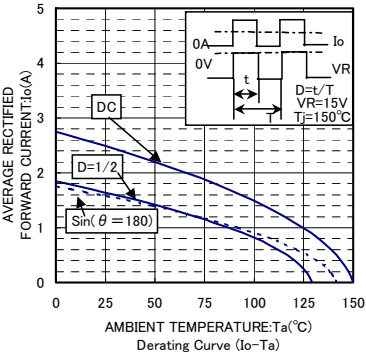
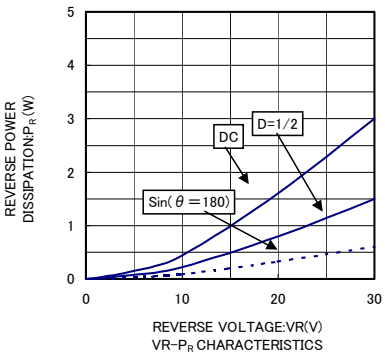
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	0.32	0.4	0.45	V	$I_F=1.0\text{A}$
	$V_{F2}$	0.36	0.44	0.49	V	$I_F=2.0\text{A}$
Reverse current	$I_R$	-	10	50	μA	$V_R=30\text{V}$
ESD break down voltage	ESD	7	-	-	kV	C=200pF, R=0Ω forward and reverse : 1 time

## Diodes

## ●Electrical characteristic curves



Diodes



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