

# Schottky barrier diode

## RB070M-30

### ●Applications

General rectification  
(Common cathode dual chip)

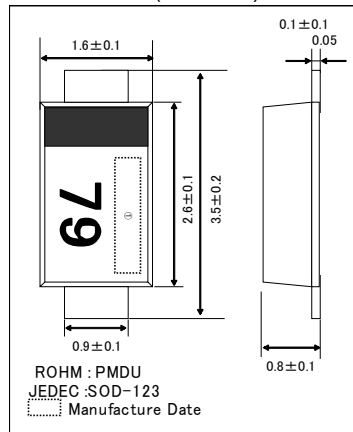
### ●Features

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

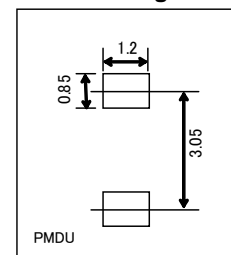
### ●Construction

Silicon epitaxial planar

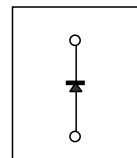
### ●Dimensions (Unit : mm)



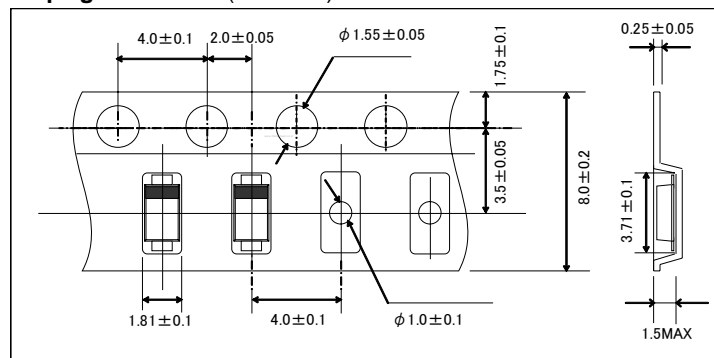
### ●Land size figure



### ●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 *	$I_o$	1.5	A
Forward current surge peak (60Hz · 1cyc.)	$I_{FSM}$	30	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to 150	°C

\* Glass epoxy substrate at the time of assembler, half sine wave at 180°.

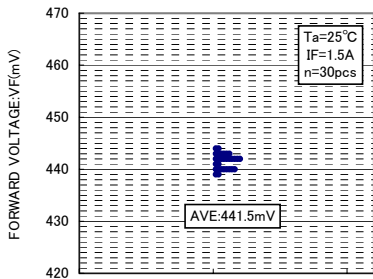
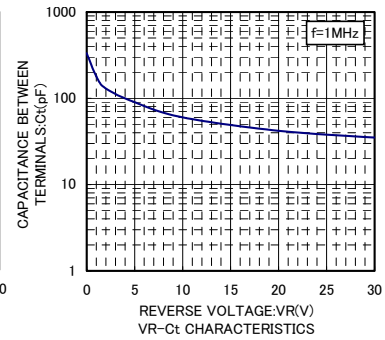
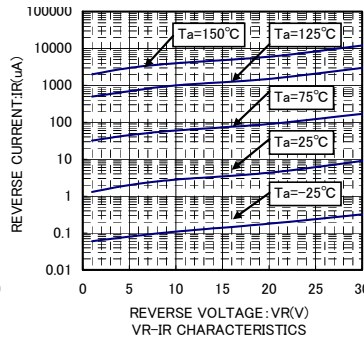
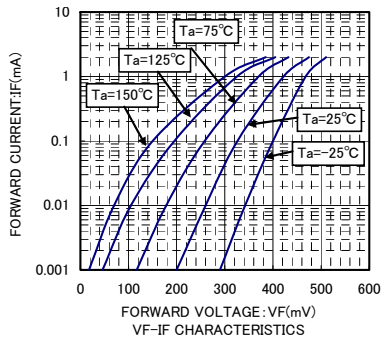
### ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	0.37	0.43	V	$I_F=0.5A$
	$V_{F2}$	-	0.44	0.49	V	$I_F=1.5A$
Reverse current	$I_R$	-	9	50	μA	$V_R=30V$

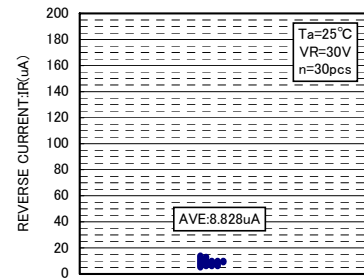
\*Please pay attention to static electricity when handling.

Diodes

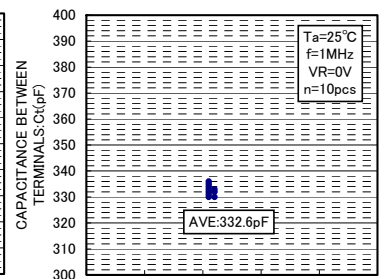
●Electrical characteristic curves



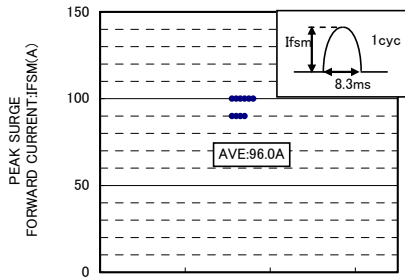
VF DISPERSION MAP



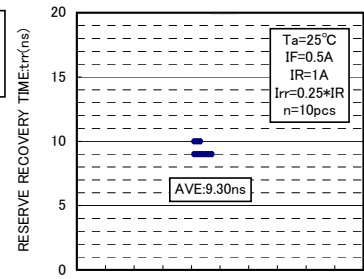
IR DISPERSION MAP



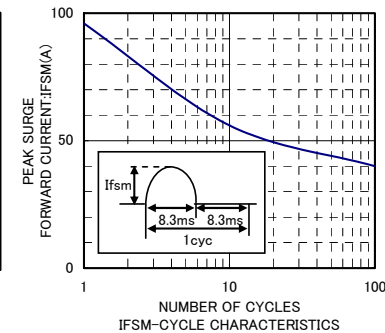
Ct DISPERSION MAP



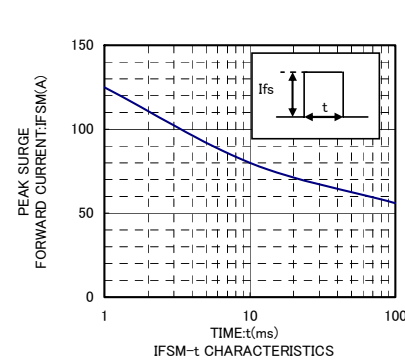
IFSM DISERSION MAP



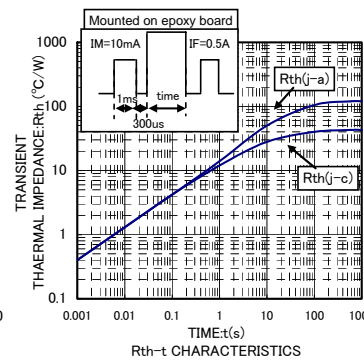
trr DISPERSION MAP



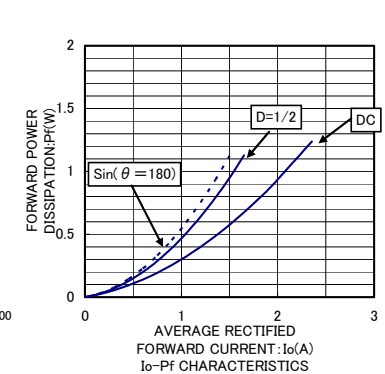
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS

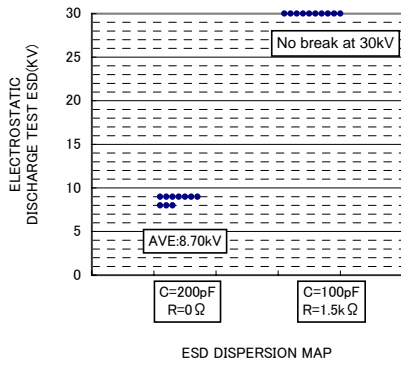
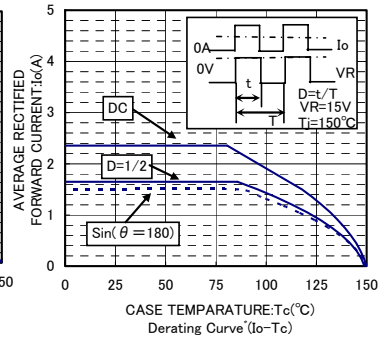
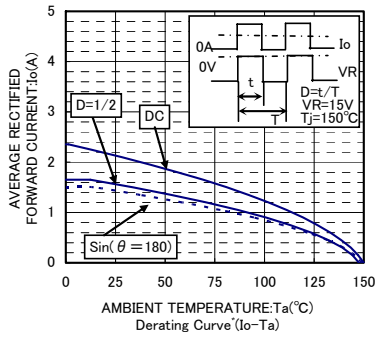
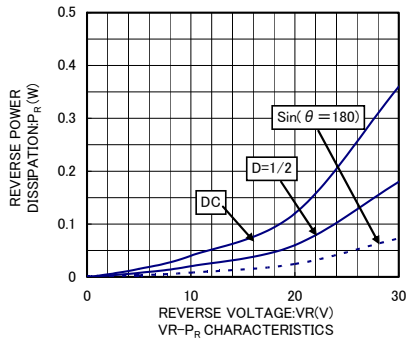


Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

Diodes



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