

# Schottky barrier diode

## RB851Y

### ●Applications

High frequency detection

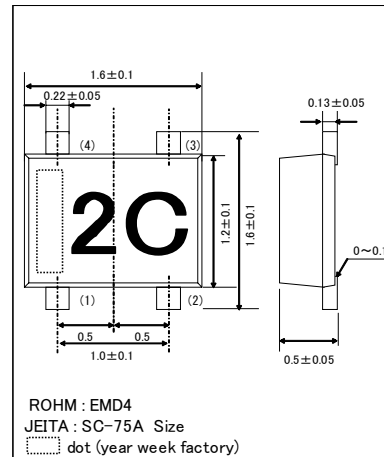
### ●Features

- 1) Ultra small mold type. (EMD4)
- 2) Low Ct and high detection efficiency.

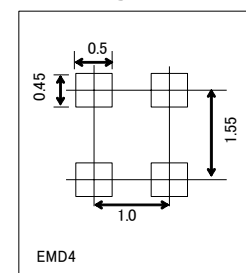
### ●Construction

Silicon epitaxial planar

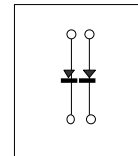
### ●External dimensions (Unit : mm)



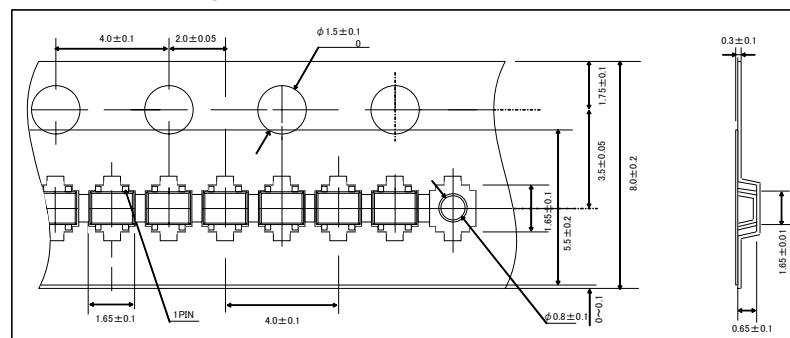
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_R$	3	V
Reverse voltage (DC)	$I_F$	30	mA
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

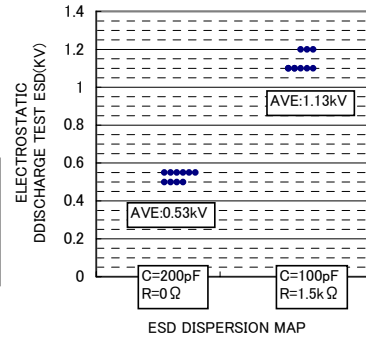
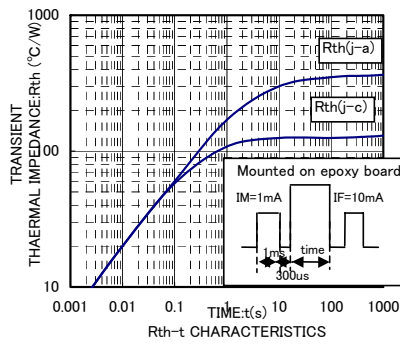
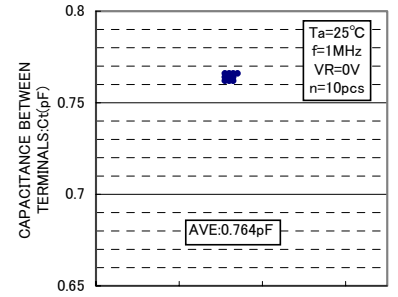
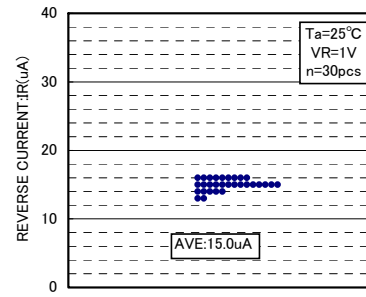
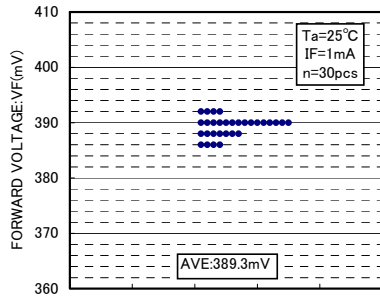
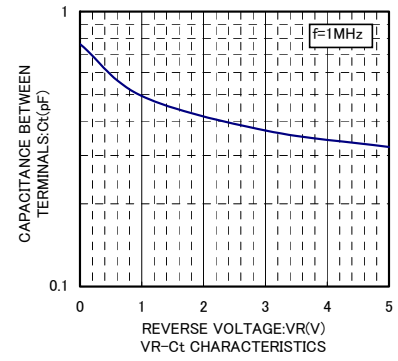
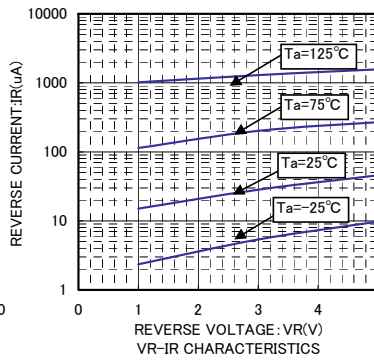
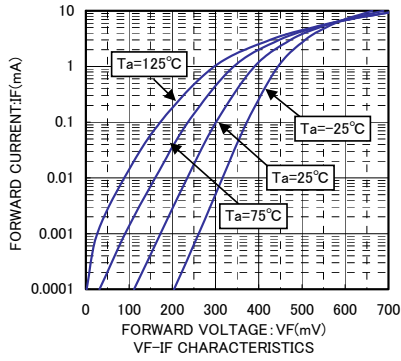
(\*1) Rating of per diode

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.46	V	$I_F=1\text{ mA}$
Reverse current	$I_R$	-	-	0.7	μA	$V_R=1\text{ V}$
Capacitance between terminal	$C_t$	-	0.8	-	pF	$V_R=0\text{ V}$ , $f=1\text{ MHz}$

Diodes

●Electrical characteristic curves (Ta=25°C)



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