

Diodes

Schottky barrier diode

RB851Y

z Applications

High frequency detection

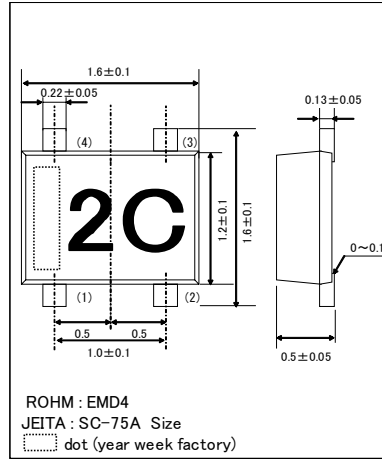
z Features

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

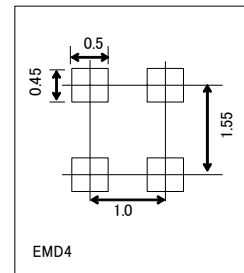
z Construction

Silicon epitaxial planar

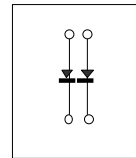
z External dimensions (Unit : mm)



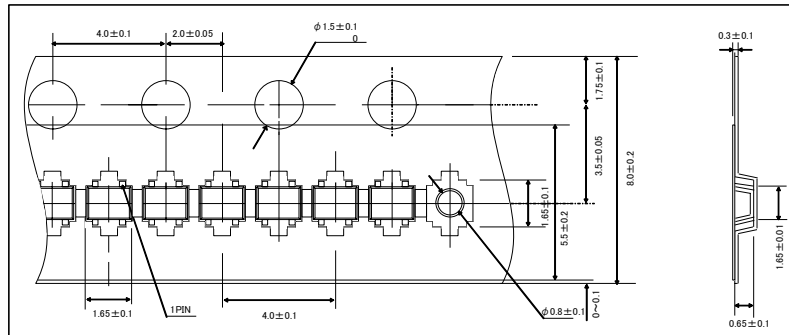
z Land size figure (Unit : mm)



z Structure



z Taping specifications (Unit : mm)



z 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

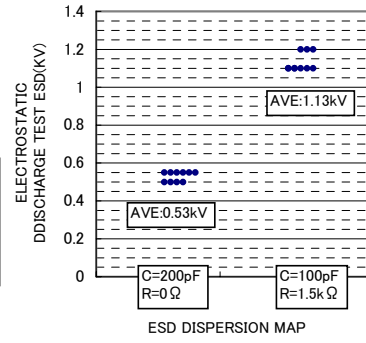
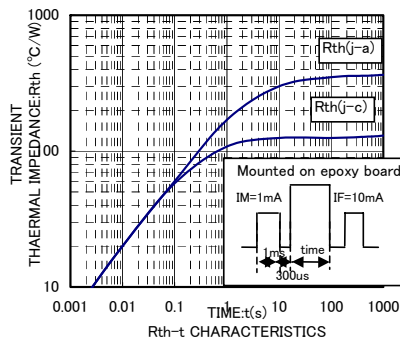
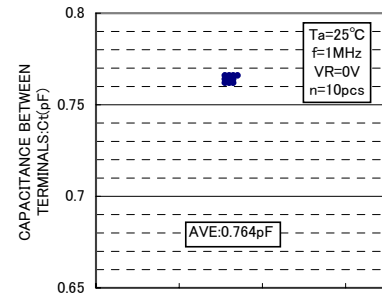
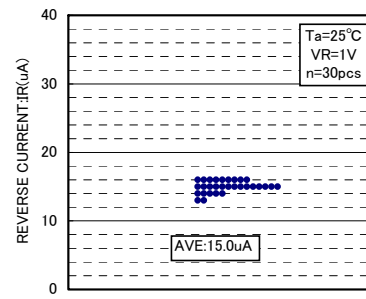
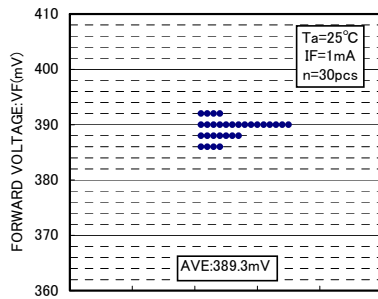
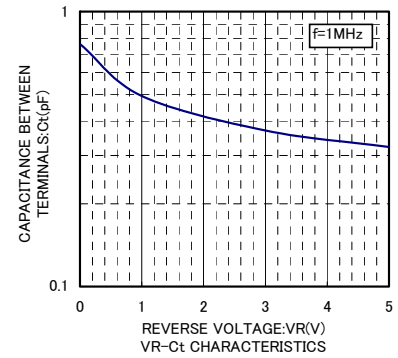
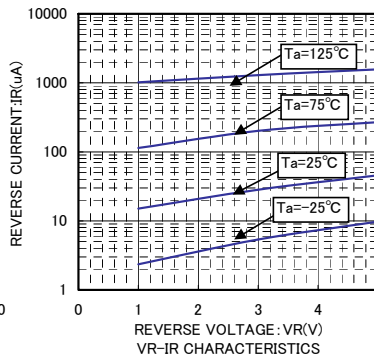
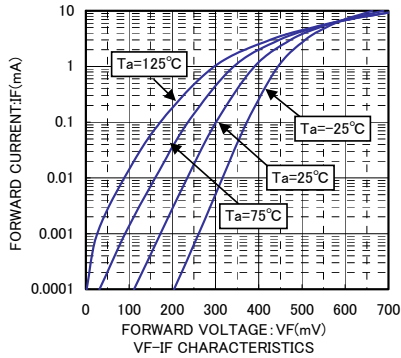
(*1) Rating of per diode

z 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

z Electrical characteristic curves (Ta=25°C)



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