

RB496KA

Diodes

# Schottky barrier diode

## RB496KA

### ●Applications

Low current rectification

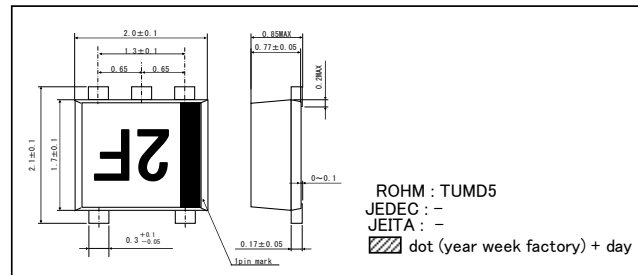
### ●Features

- 1) Small mold type (TUMD5)
- 2) Low VF
- 3) High reliability

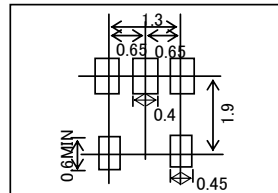
### ●Structure

Silicon epitaxial planer

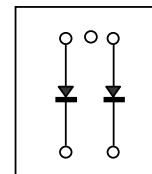
### ●Dimensions (Unit : mm)



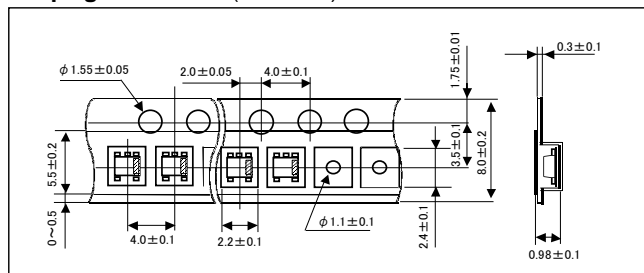
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current (*1)	$I_o$	1	A
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	5	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

(\*1) Rating of per diode

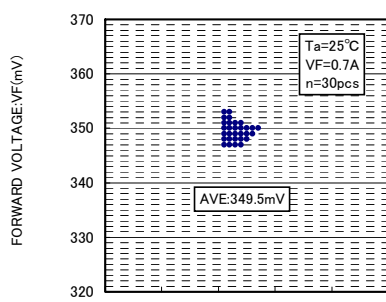
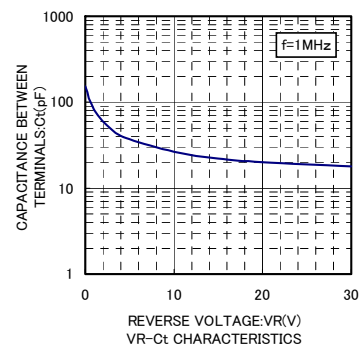
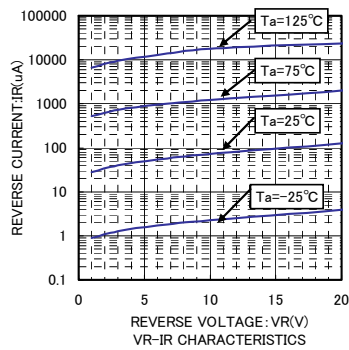
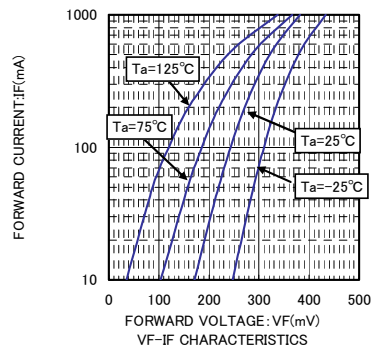
### ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-		0.40	V	$I_F=0.7A$
	$V_{F2}$	-		0.43	V	$I_F=1A$
Reverse current	$I_R$	-	-	800	μA	$V_R=10V$

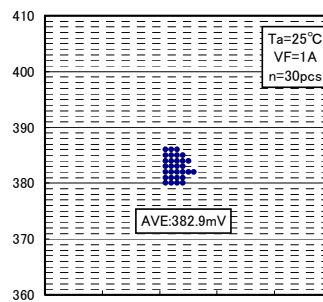
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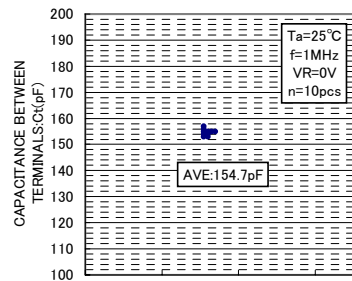
## ●Electrical characteristic curves



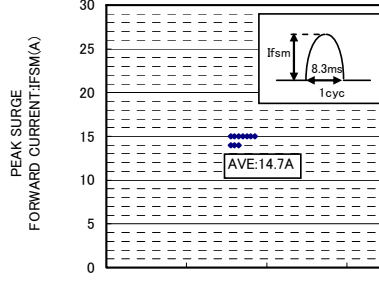
VF DISPERSION MAP



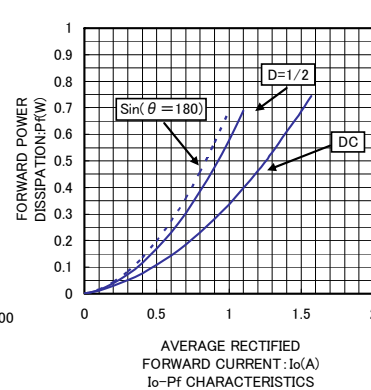
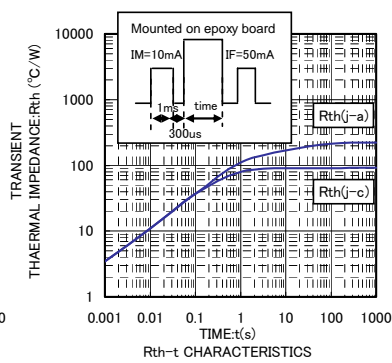
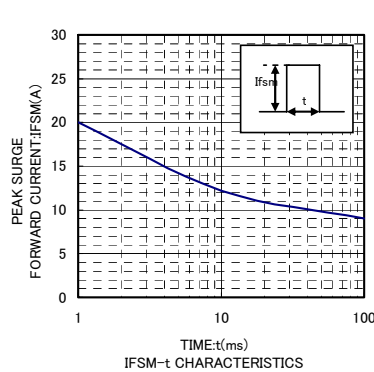
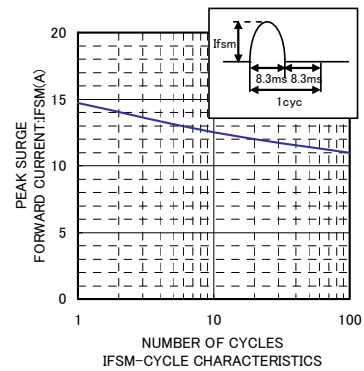
IR DISPERSION MAP



Ct DISPERSION MAP

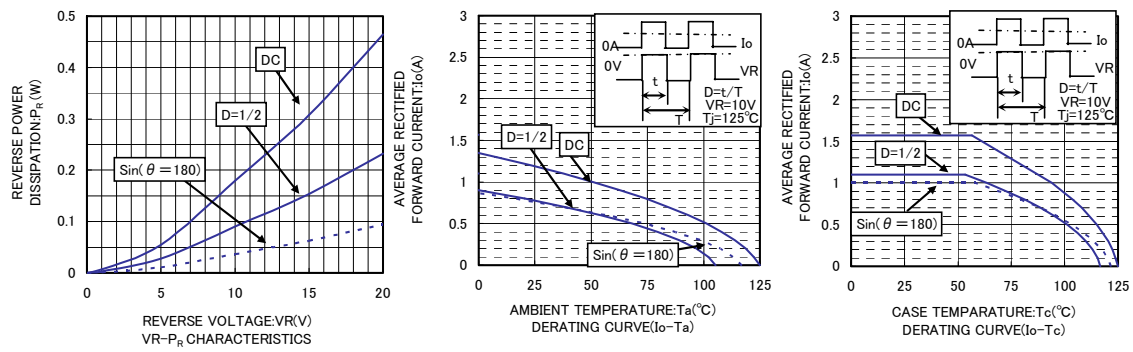


IFSM DISERSION MAP



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## Appendix

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