

Schottky barrier diode

RB496KA

●Applications

Low current rectification

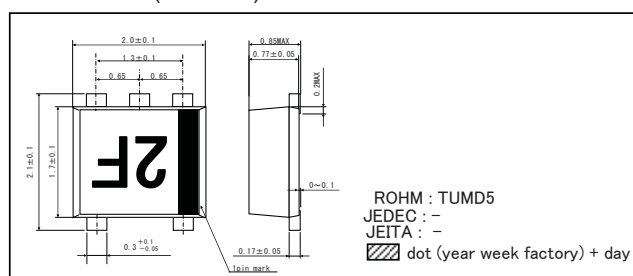
●Features

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

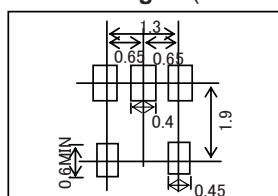
●Structure

Silicon epitaxial planer

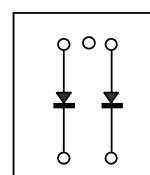
●Dimensions (Unit : mm)



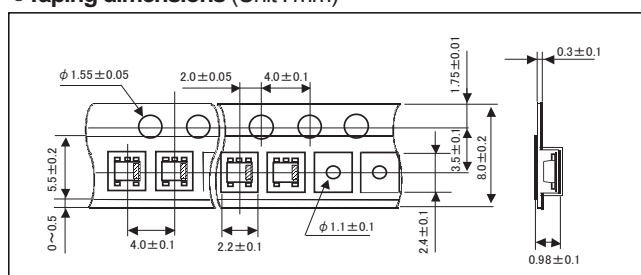
●Land size figure (Unit : mm)



●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

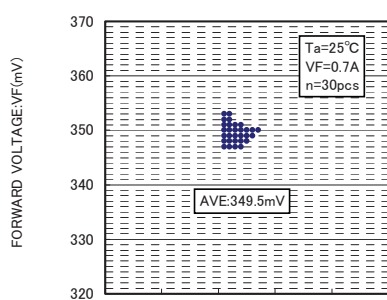
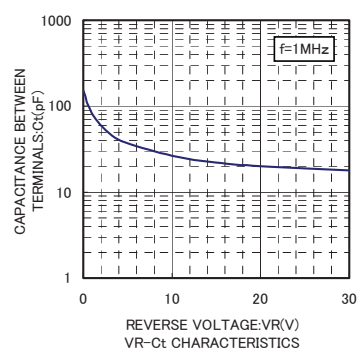
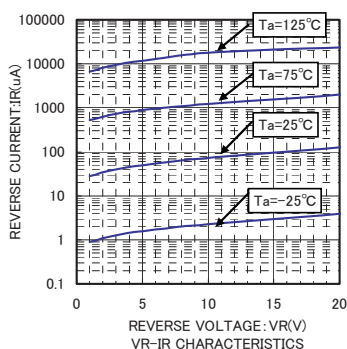
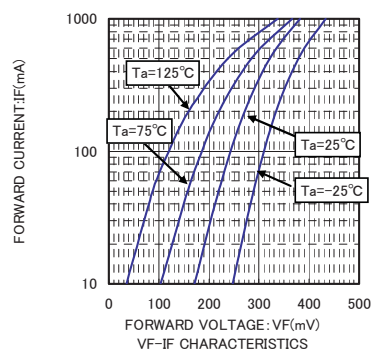
(*1) Rating of per diode

●Electrical characteristic (Ta=25°C)

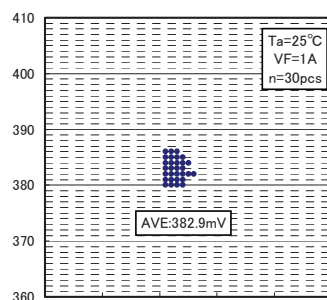
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-		0.40	V	$I_F=0.7A$
	V_{F2}	-		0.43	V	$I_F=1A$
Reverse current	I_R	-	-	800	μA	$V_R=10V$

Diodes

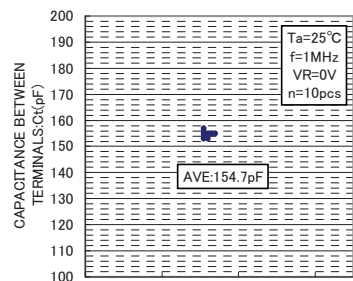
●Electrical characteristic curves



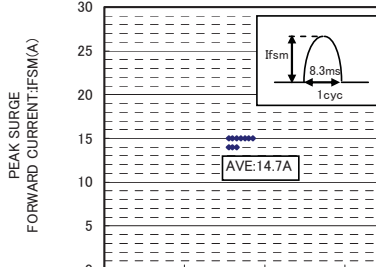
VF DISPERSION MAP



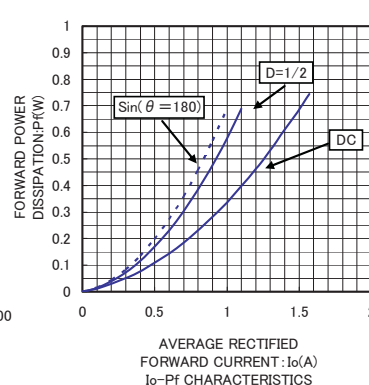
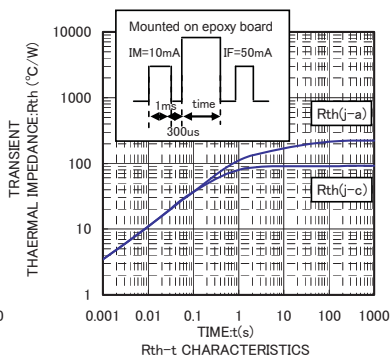
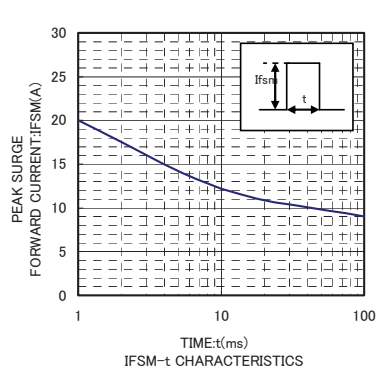
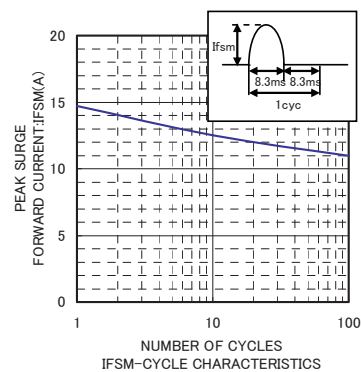
IR DISPERSION MAP



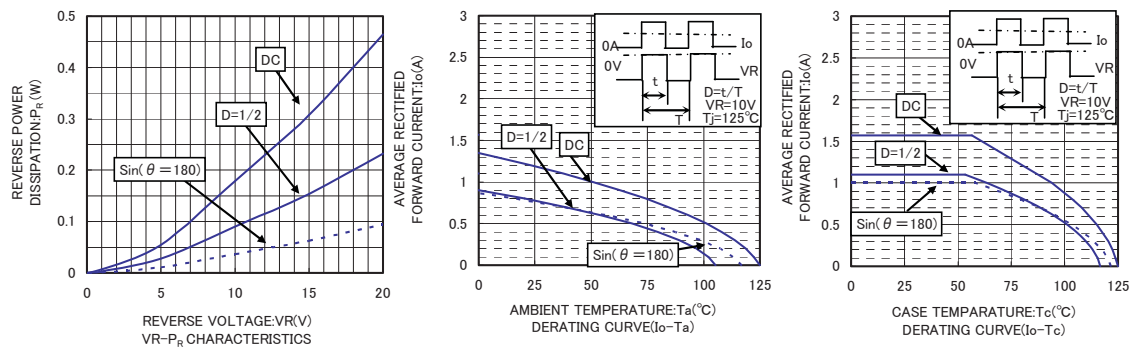
Ct DISPERSION MAP



IFSM DISERSION MAP



Diodes



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