

## Schottky barrier diode

## RB161VA-20

## ●Applications

General rectification

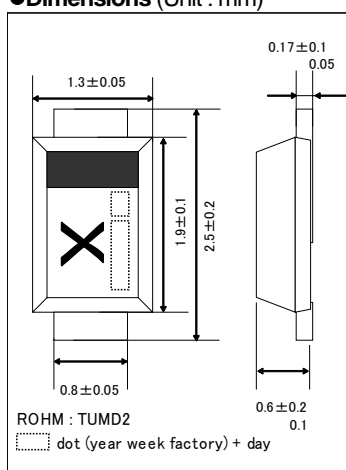
## ●Features

- 1) Small power mold type (TUMD2)
- 2) Low  $V_F$
- 3) High reliability

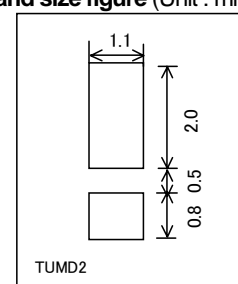
## ●Structure

Silicon epitaxial planar

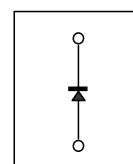
## ●Dimensions (Unit : mm)



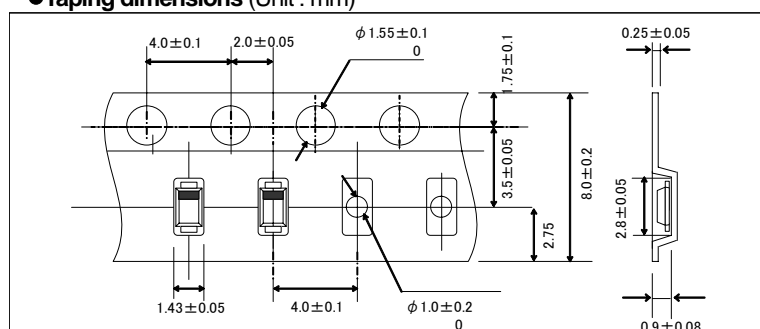
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)

●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

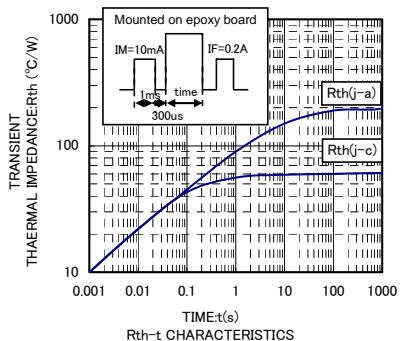
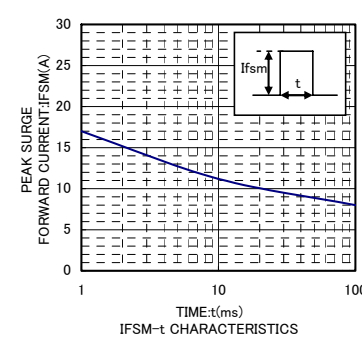
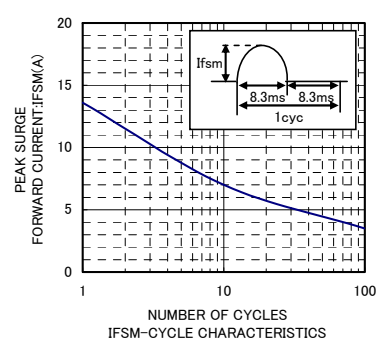
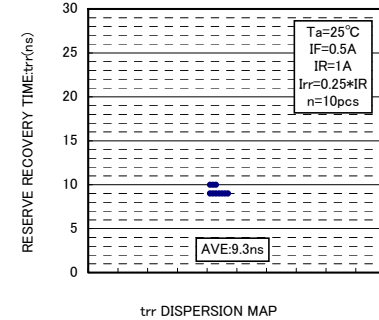
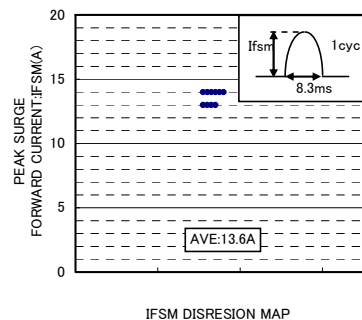
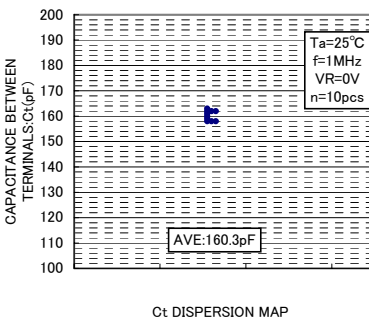
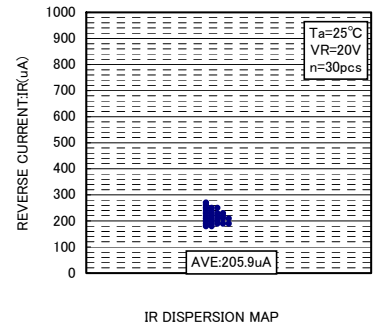
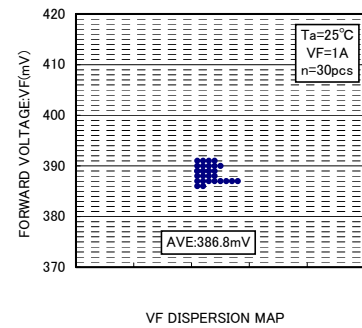
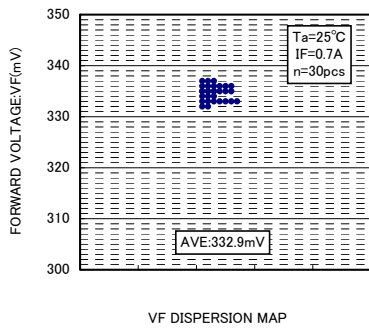
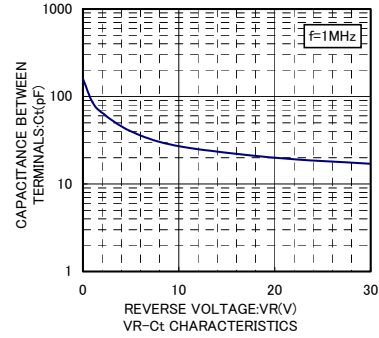
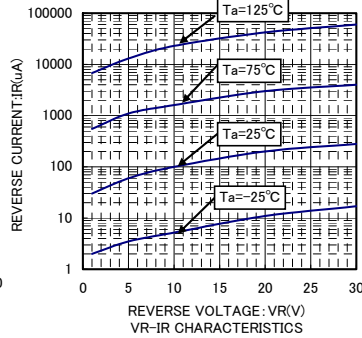
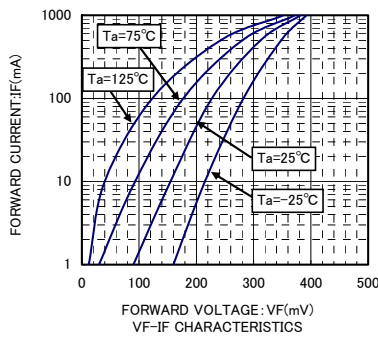
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	30	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	5	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

●Electrical characteristic ( $T_a=25^\circ\text{C}$ )

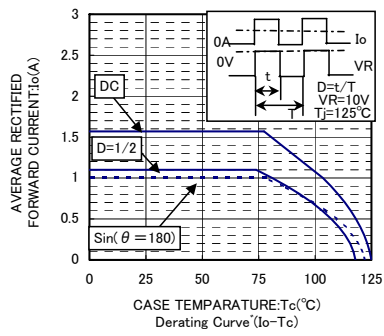
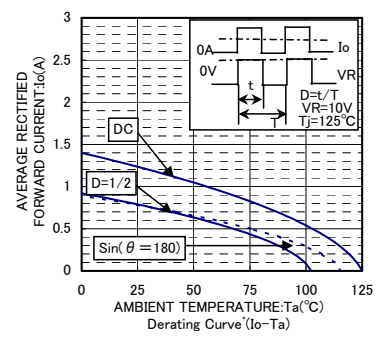
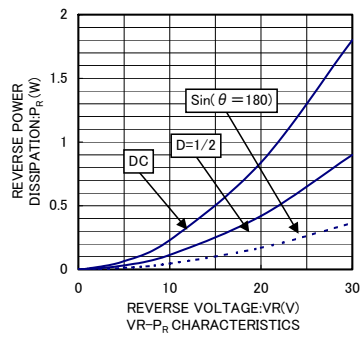
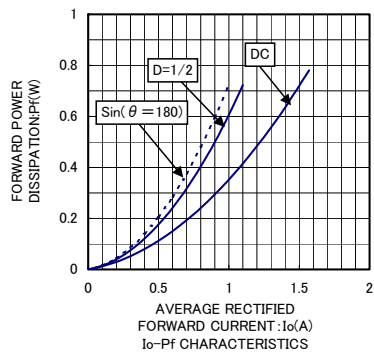
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{F1}$	-	0.33	0.37	V	$I_F=700\text{mA}$
	$V_{F2}$	-	0.38	0.42	$\mu\text{A}$	$I_F=1\text{A}$
Reverse current	$I_R$	-	0.2	1	mA	$V_R=20\text{V}$

Diodes

●Electrical characteristic curves



Diodes



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