

## Schottky barrier diode

## RB160VA-40

## ● Applications

General rectification

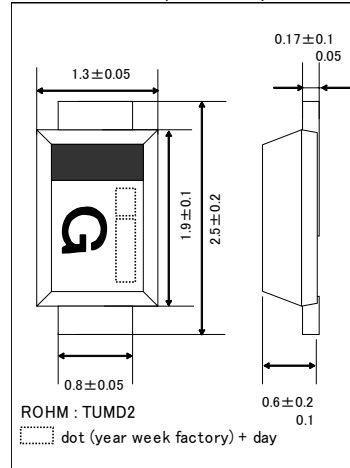
## ● Features

- 1) Small mold type. (TUMD2)
- 2) Low  $V_F$ , Low  $I_R$ .
- 3) High reliability.

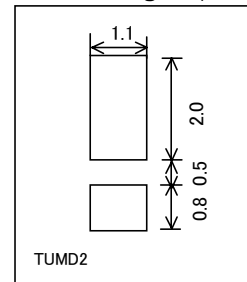
## ● Construction

Silicon epitaxial planar

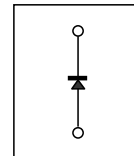
## ● Dimensions (Unit : mm)



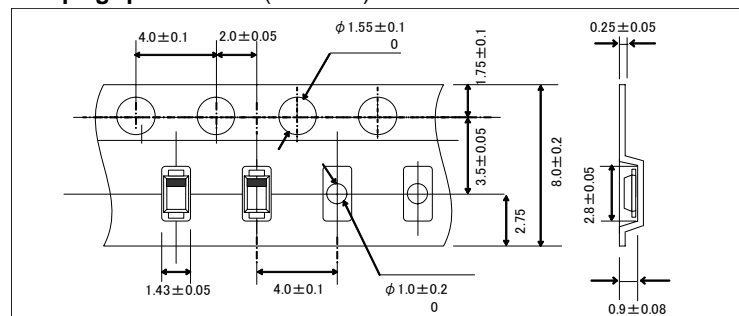
## ● Land size figure (Unit : mm)



## ● Structure



## ● Taping specifications (Unit : mm)

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

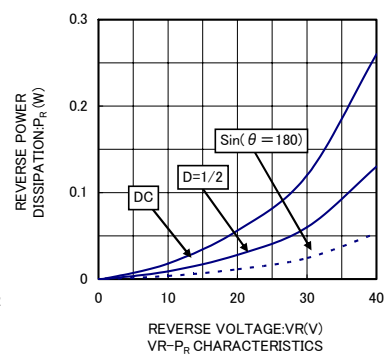
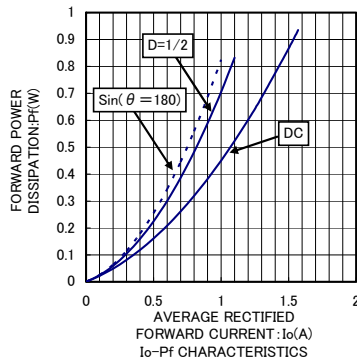
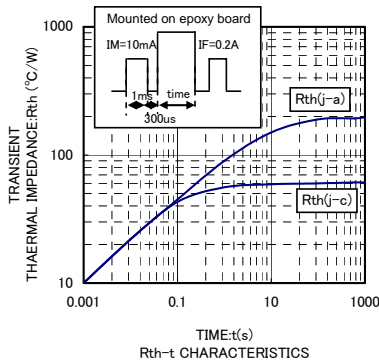
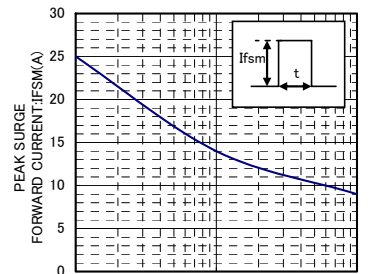
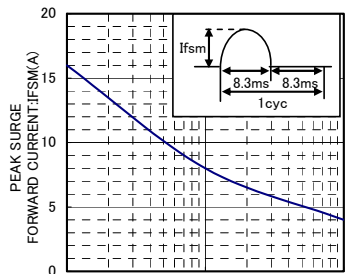
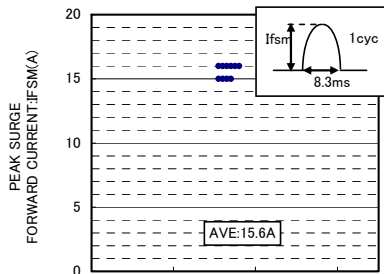
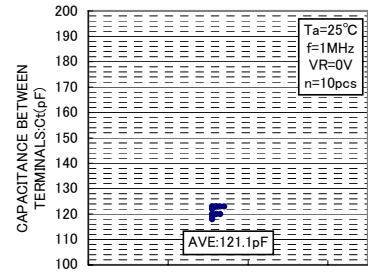
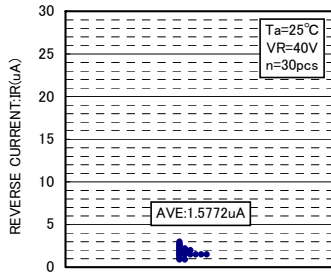
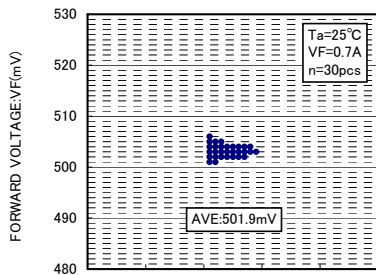
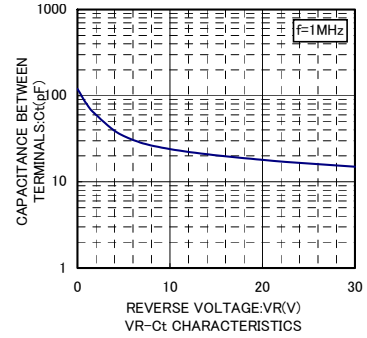
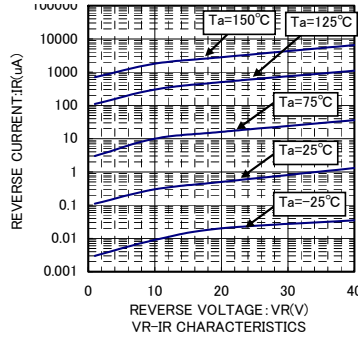
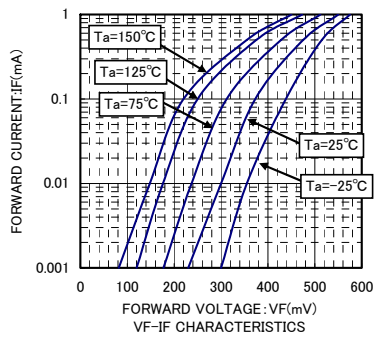
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	1	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	5	A
Forward current surge peak (t=100μs·1cyc)	$I_{FSM}$	10	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

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

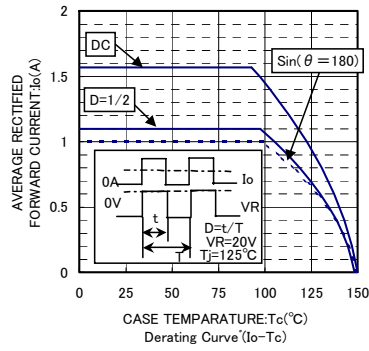
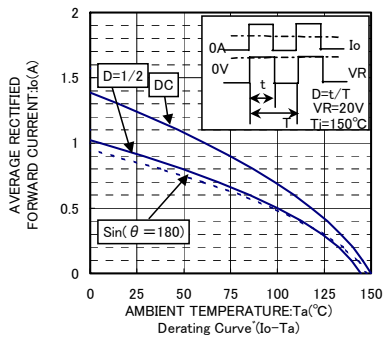
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.50	0.55	V	$I_F=700\text{mA}$
Reverse current	$I_R$	-	1.5	50	μA	$V_R=40\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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