

## Schottky barrier diode

## RB461F

## ●Applications

Low current rectification

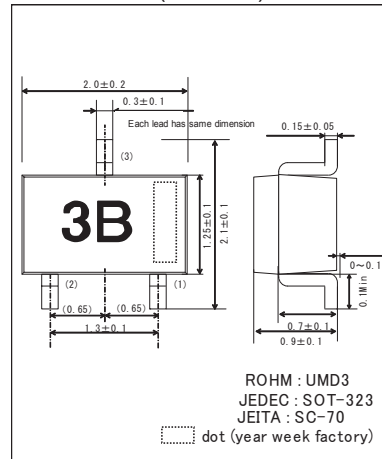
## ●Features

- 1) Small mold type. (UMD3)
- 2) Low  $V_F$ .
- 3) High reliability.

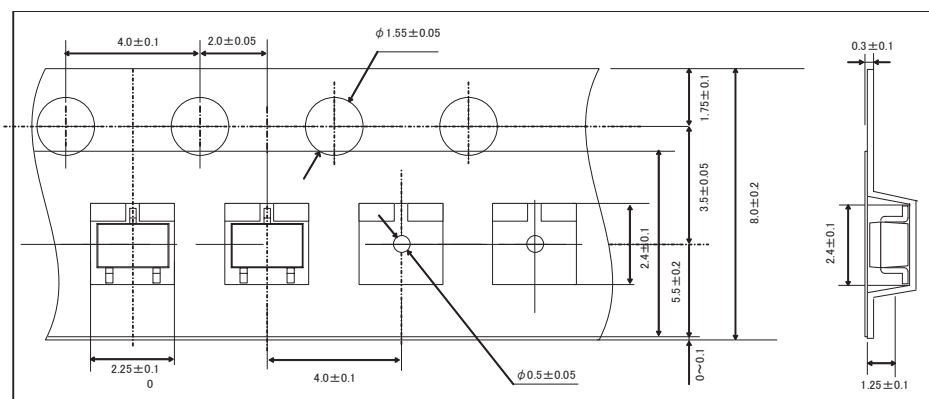
## ●Construction

Silicon epitaxial planar

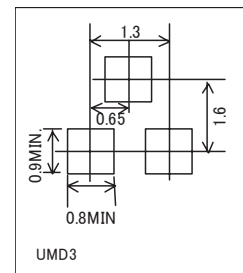
## ●Dimensions (Unit : mm)



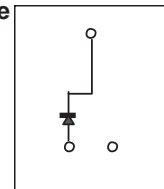
## ●Taping specifications (Unit : mm)



## ●Land size figure (Unit : mm)



## ●Structure

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

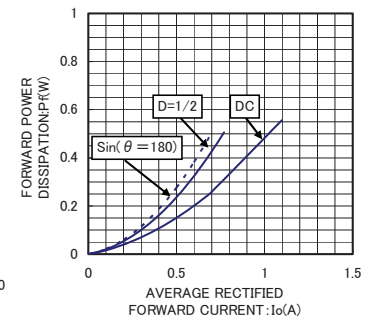
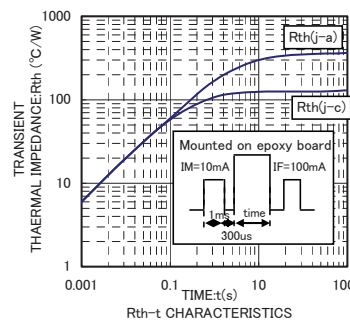
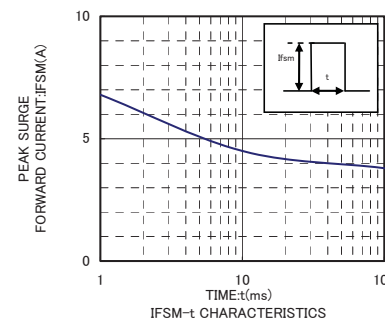
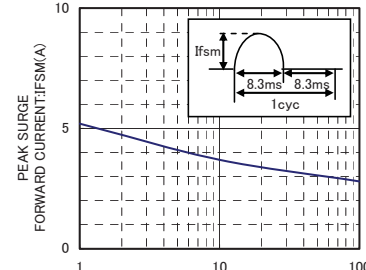
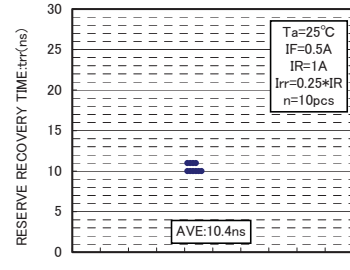
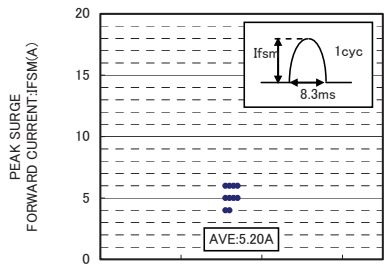
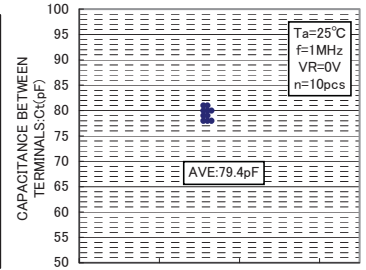
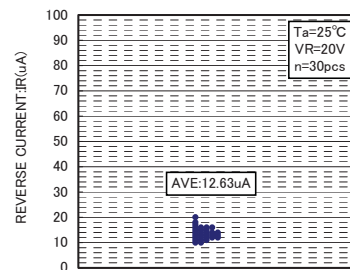
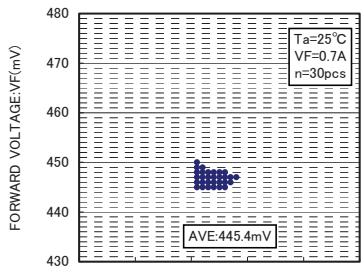
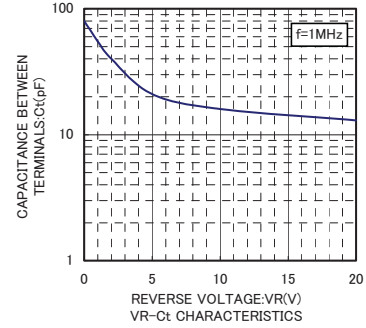
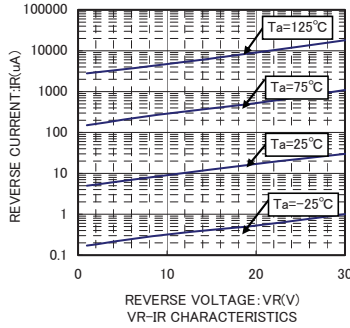
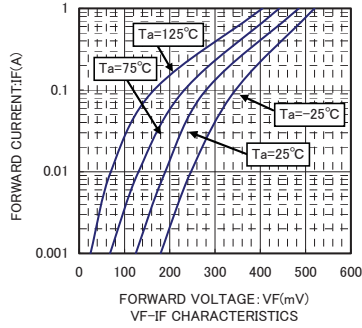
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	25	V
Reverse voltage (DC)	$V_R$	20	V
Average rectified forward current (*1)	$I_o$	0.7	A
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	3	A
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

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

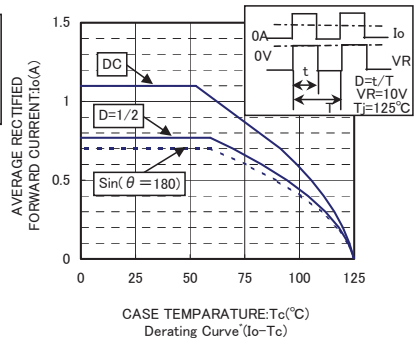
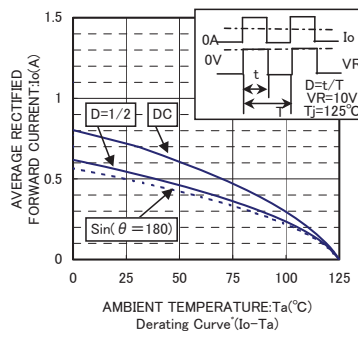
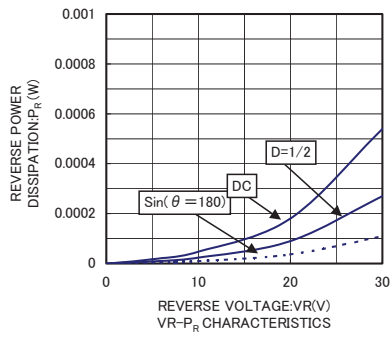
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.49	V	$I_F=700\text{mA}$
Reverse current	$I_R$	-	-	200	$\mu\text{A}$	$V_R=20\text{V}$

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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