

# Schottky barrier diode

## RB751G-40

### ● Applications

General rectification

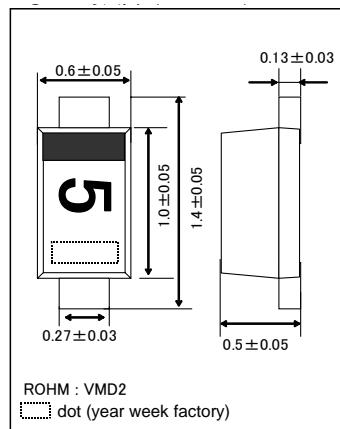
### ● Features

- 1) Small power mold type.  
(VMD2)
- 2) Low  $V_F$
- 3) High reliability

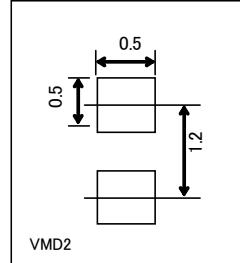
### ● Construction

Silicon epitaxial planar

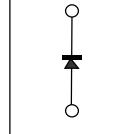
### ● External dimensions (Unit : mm)



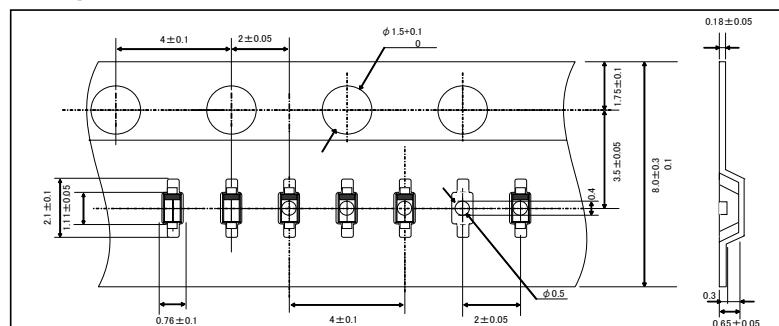
### ● Land size figure



### ● Structure



### ● Taping dimensions (Unit : mm)



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

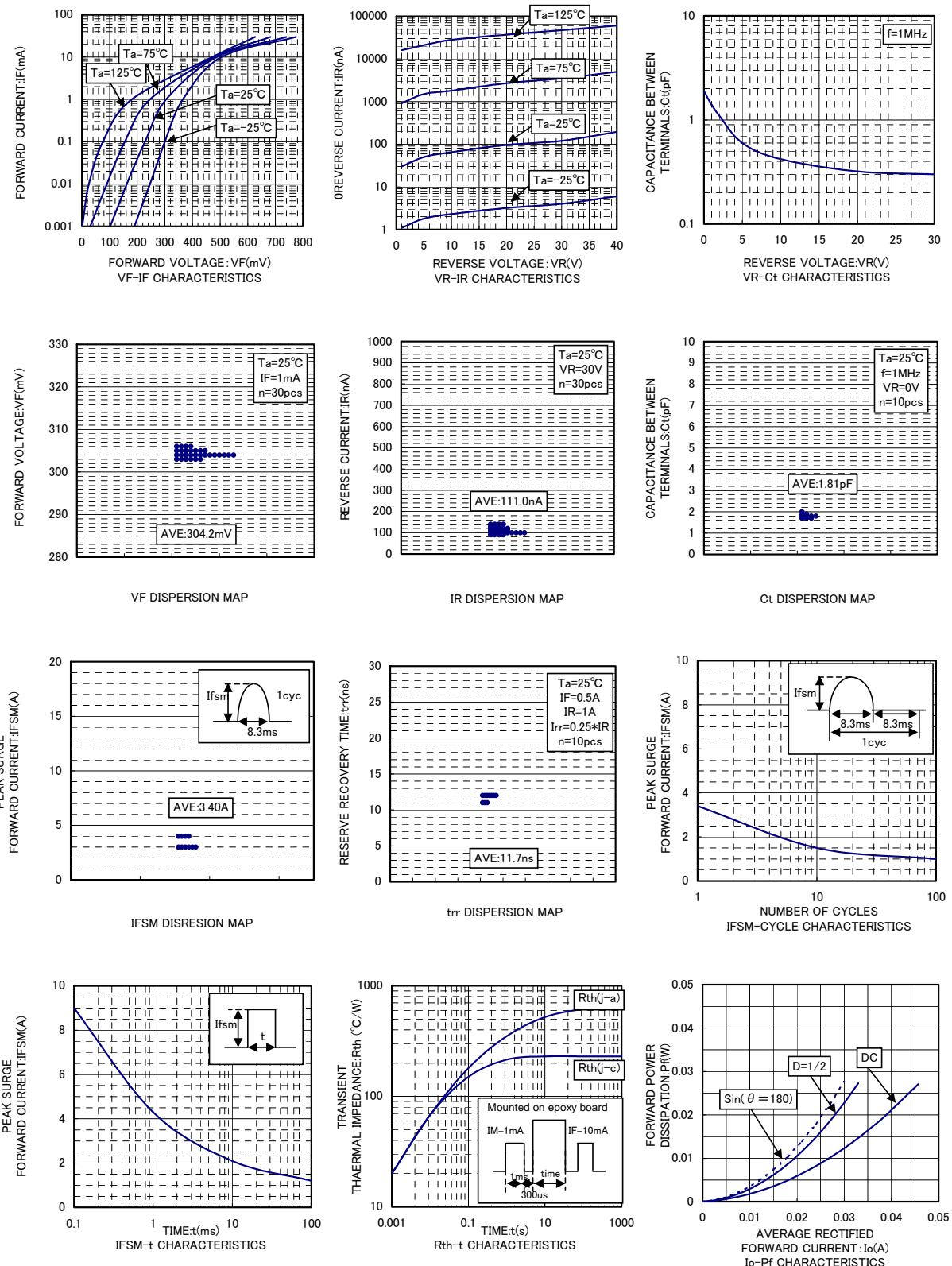
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current	$I_o$	30	mA
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	200	mA
Junction temperature	$T_J$	125	°C
Storage temperature	$T_{Stg}$	-40 to +125	°C

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

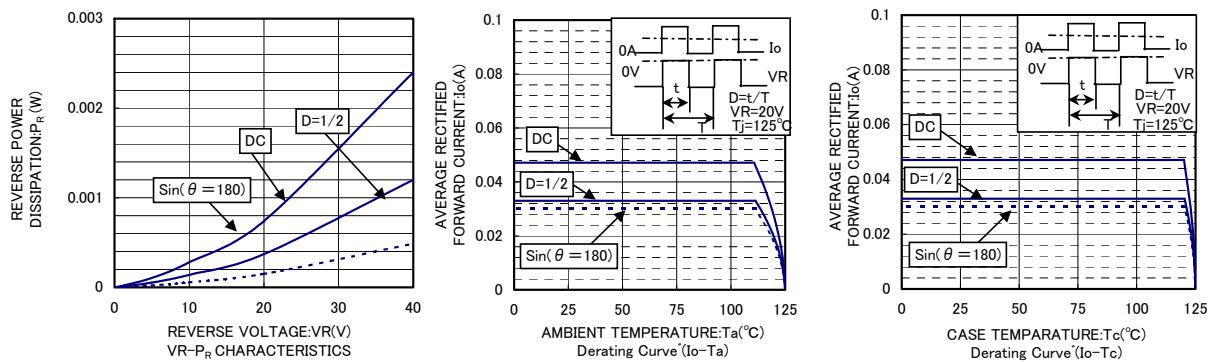
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.37	V	$I_F=1\text{mA}$
Reverse current	$I_R$	-	-	0.5	μA	$V_R=30\text{V}$
Capacitance between terminals	$C_t$	-	2	-	pF	$V_R=1\text{V}$ , $f=1\text{MHz}$

## Diodes

## ● Electrical characteristic curves



## Diodes



## Appendix

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