

# Schottky barrier diode

## RB075B40S

### ●Applications

General rectification

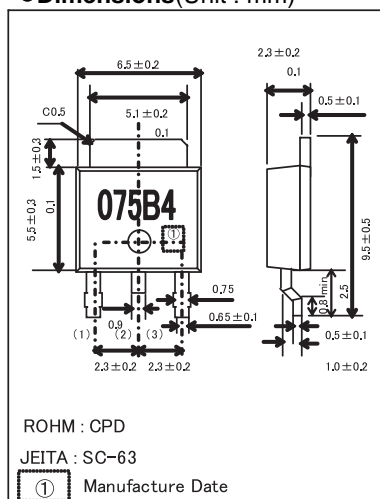
### ●Features

- 1) Power mold type.(CPD)
- 2) Low  $I_R$
- 3) High reliability

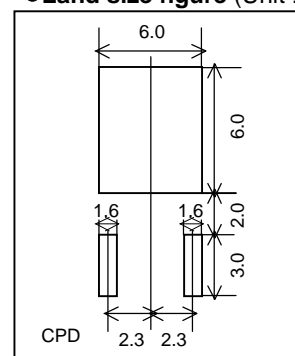
### ●Construction

Silicon epitaxial planar

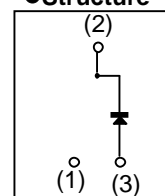
### ●Dimensions(Unit : mm)



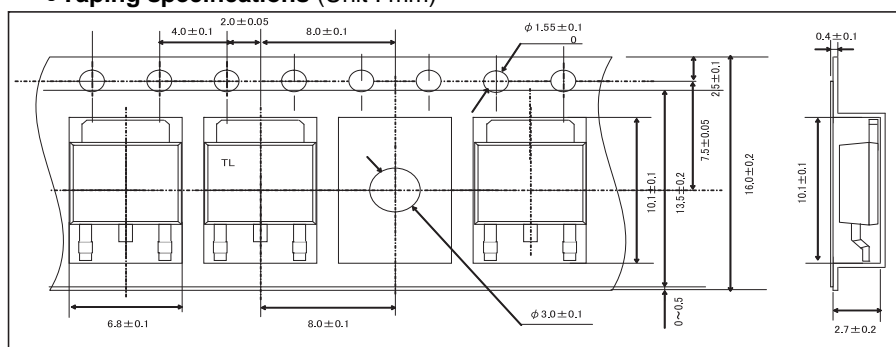
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings (Ta=25°C)

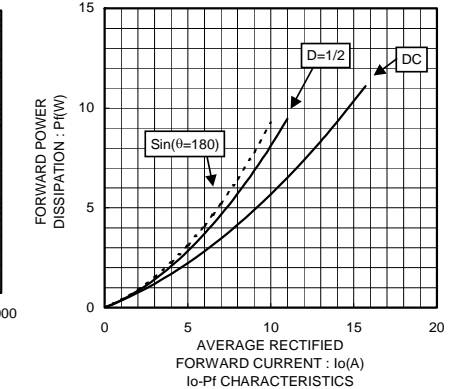
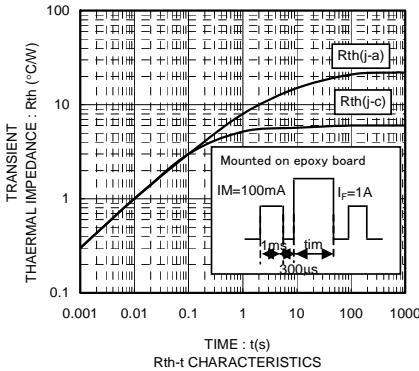
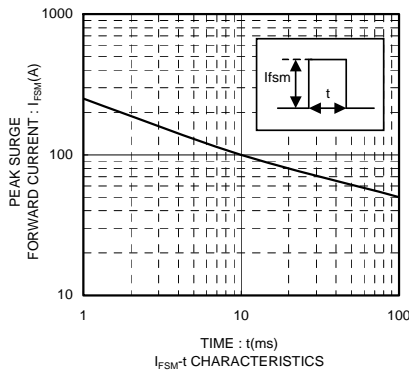
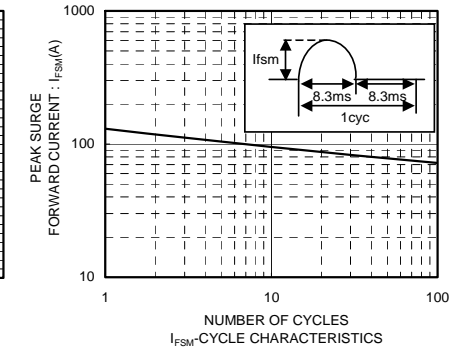
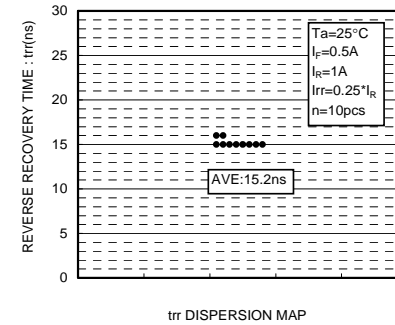
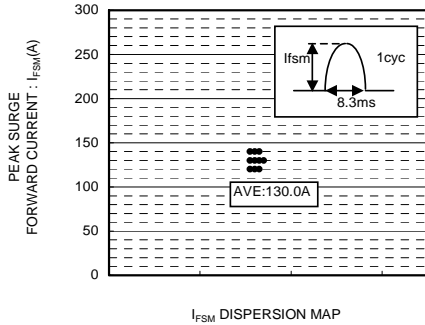
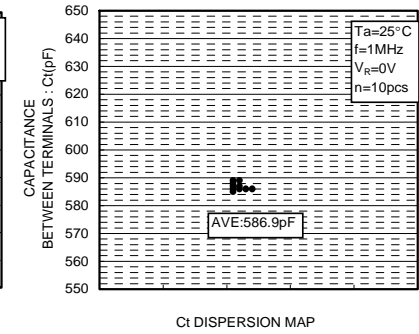
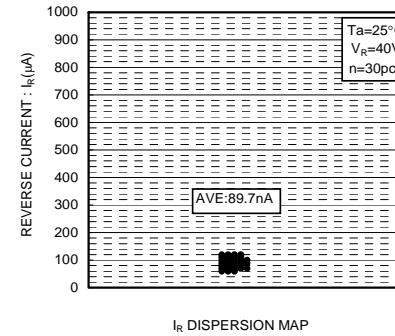
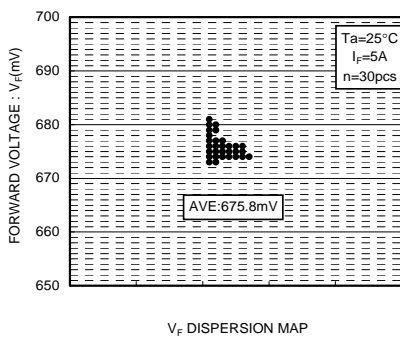
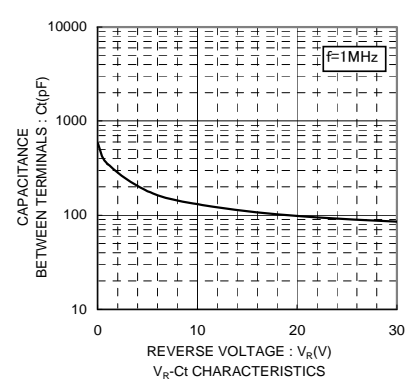
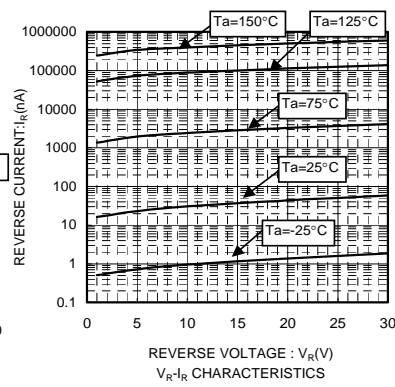
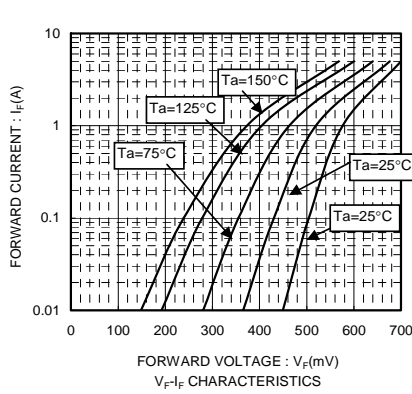
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current(*1)	$I_o$	5	A
Forward current surge peak (60Hz / 1cyc)	$I_{FSM}$	45	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

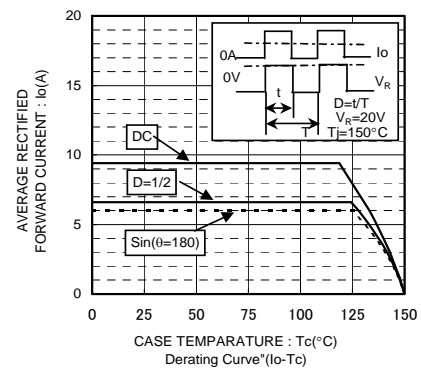
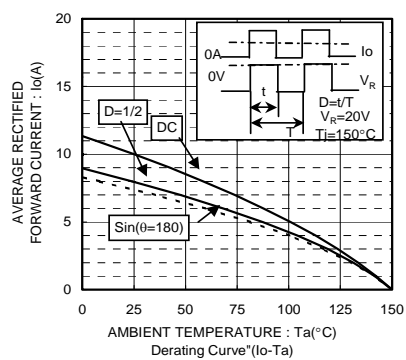
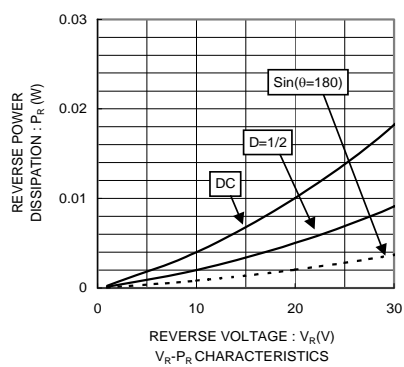
(\*1)Business frequencies, Rating of R-load,  $T_c=125^{\circ}\text{C}$  MAX

### ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.75	V	$I_F=5.0\text{A}$
Reverse current	$I_R$	-	-	5.0	$\mu\text{A}$	$V_R=40\text{V}$

# ●Electrical characteristic curves





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