

Schottky barrier diode

RB075B40S

● **Applications**

General rectification

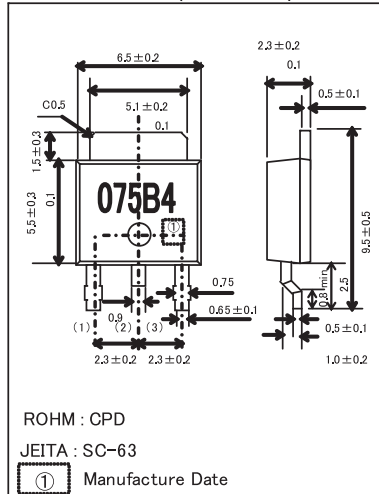
● **Features**

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

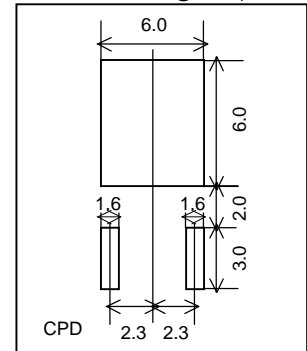
● **Construction**

Silicon epitaxial planar

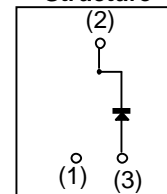
● **Dimensions**(Unit : mm)



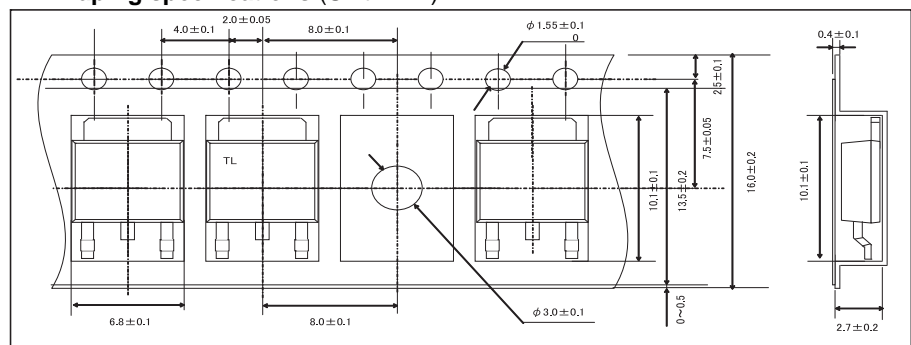
● **Land size figure** (Unit : mm)



● **Structure**



● **Taping specifications** (Unit : mm)



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

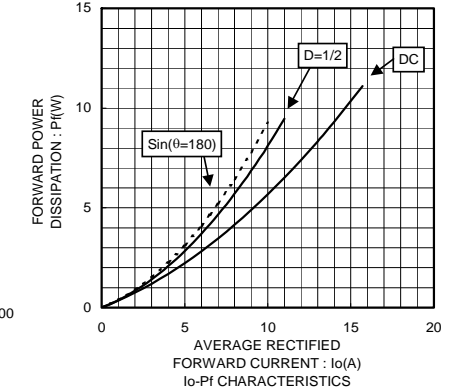
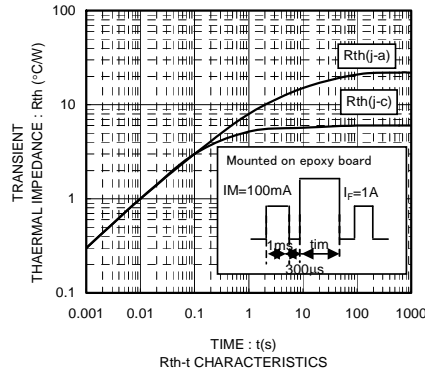
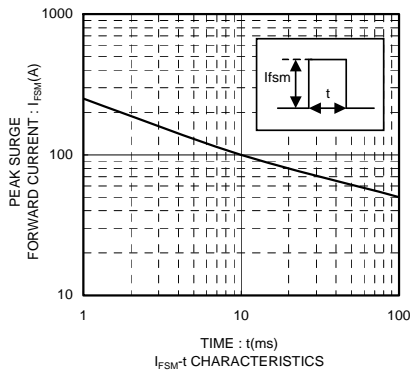
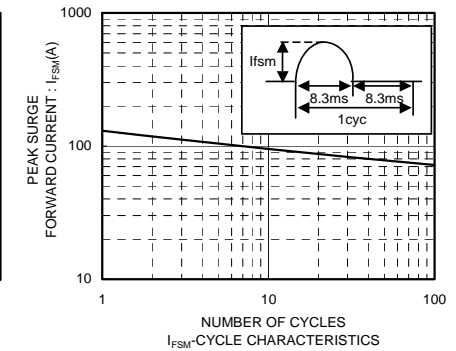
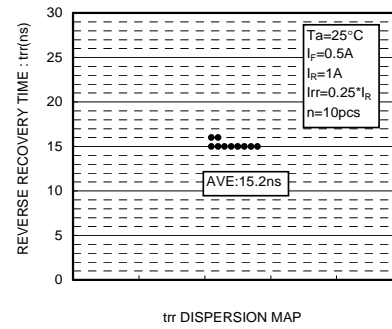
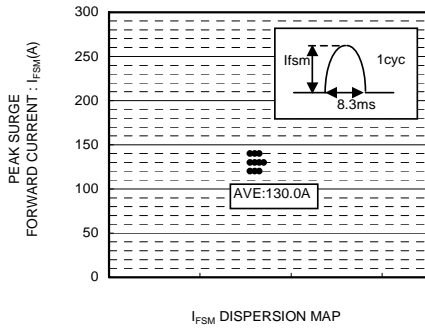
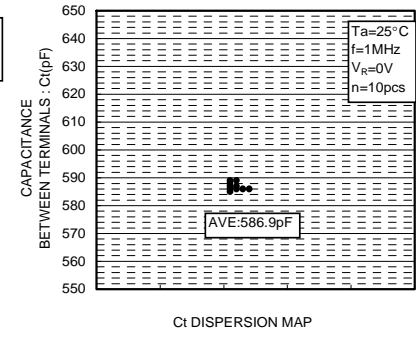
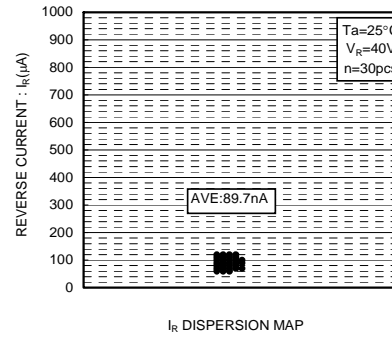
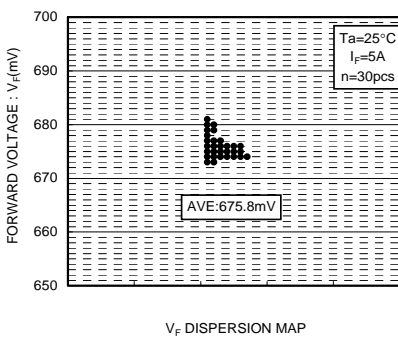
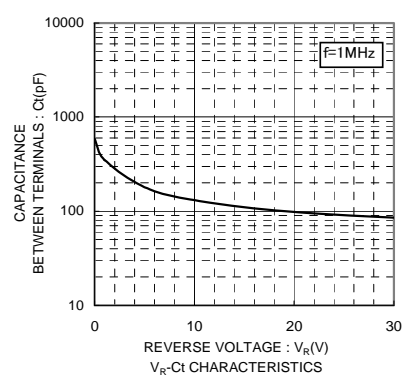
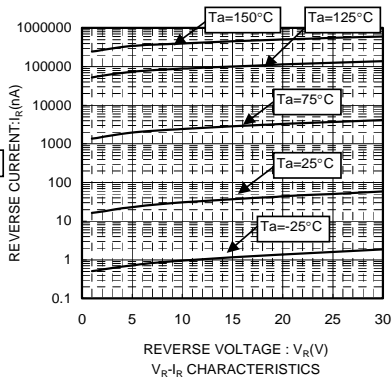
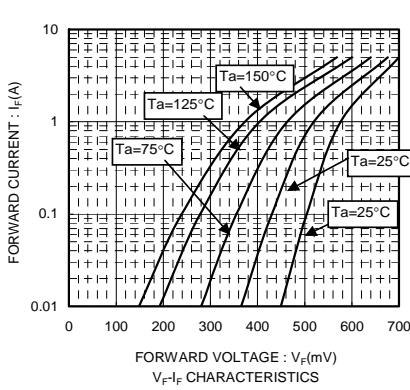
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current(*1)	I_o	5	A
Forward current surge peak (60Hz / 1cyc)	I_{FSM}	45	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

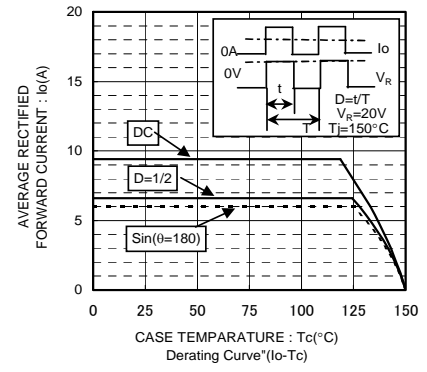
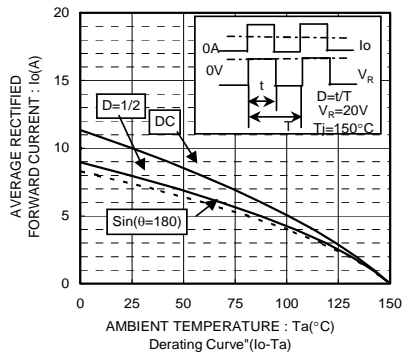
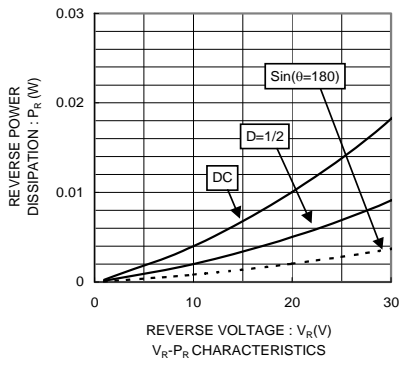
(*1)Business frequencies, Rating of R-load, $T_c=125^\circ\text{C}$ MAX

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

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	μA	$V_R=40\text{V}$

●Electrical characteristic curves





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