

Diodes

## Schottky barrier diode

## RB085B-30

## ●Applications

General rectification

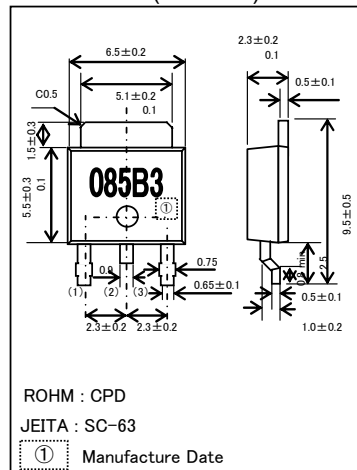
## ●Features

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

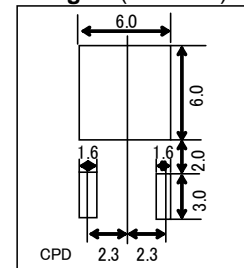
## ●Construction

Silicon epitaxial planar

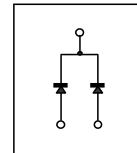
## ●Dimensions (Unit : mm)



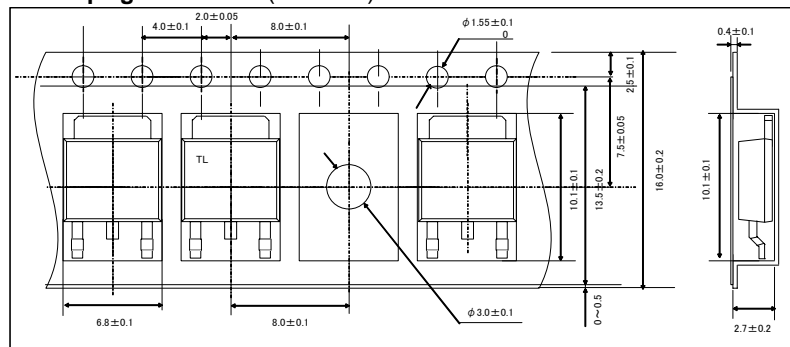
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)

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

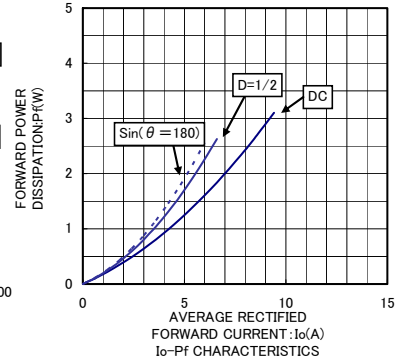
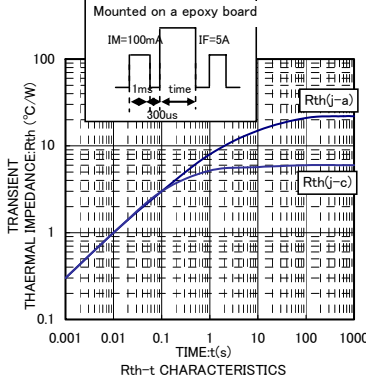
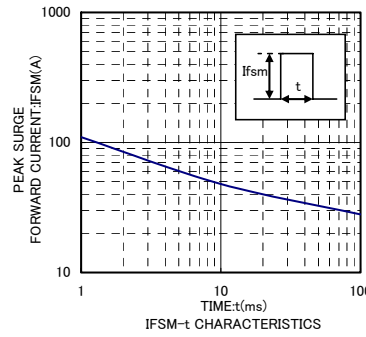
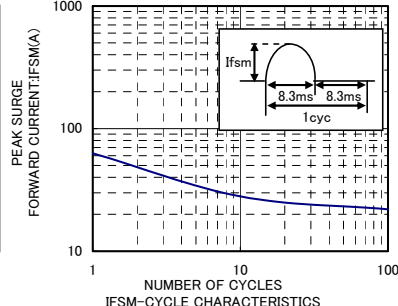
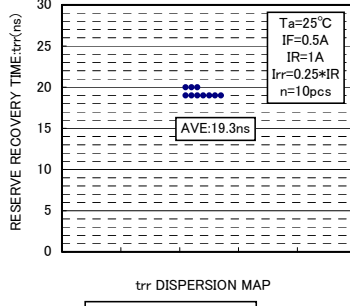
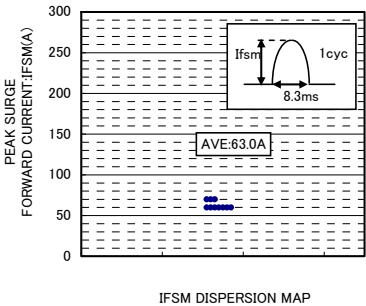
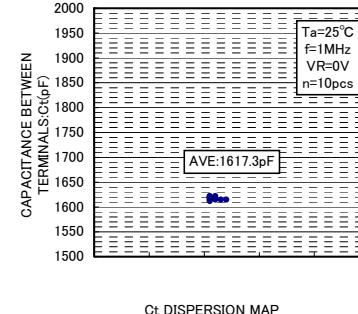
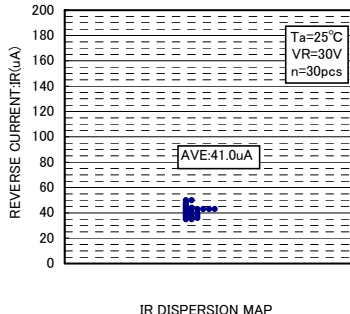
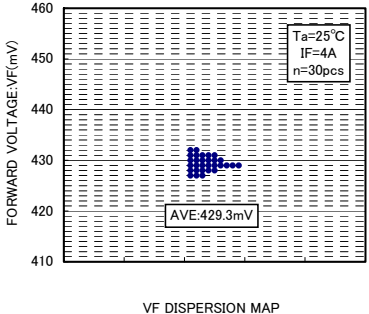
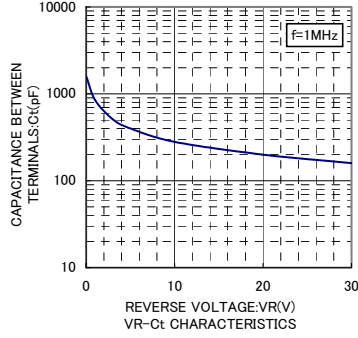
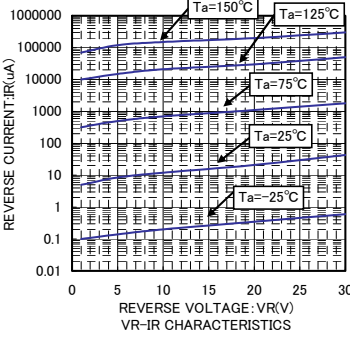
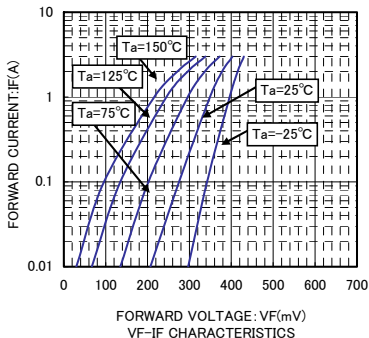
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	35	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	10	A
Forward current surge peak (60Hz·1cyc) (*1)	$I_{FSM}$	35	A
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +150	$^\circ\text{C}$

(\*1)Business frequencies, Rating of R-load, 1/2  $I_o$  per diode,  $T_c=105^\circ\text{C}$ ●Electrical characteristic ( $T_a=25^\circ\text{C}$ )

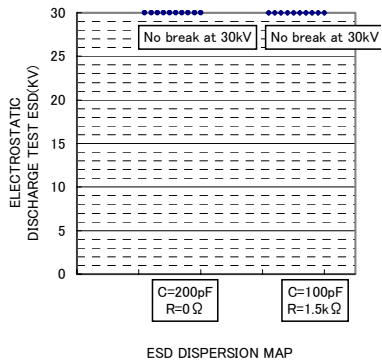
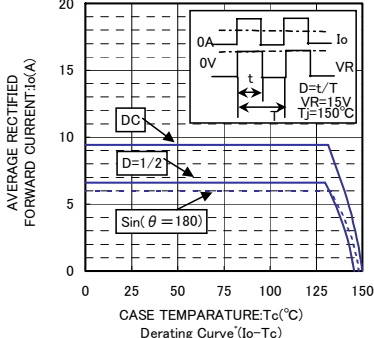
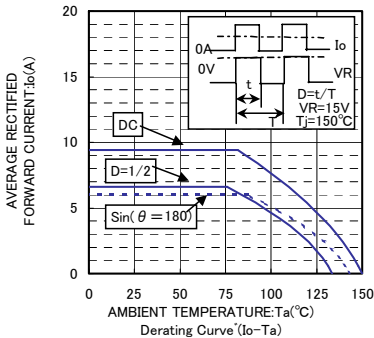
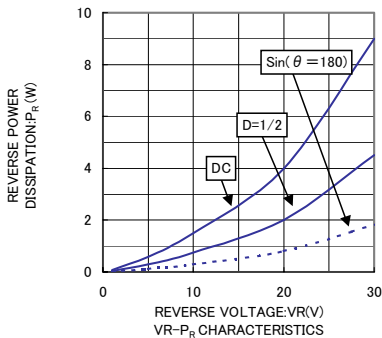
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.48	V	$I_F=4.0\text{A}$
Reverse current	$I_R$	-	-	300	$\mu\text{A}$	$V_R=30\text{V}$
Thermal impedance	$\theta_{jc}$	-	-	6.0	$^\circ\text{C/W}$	junction to case

Diodes

●Electrical characteristic curves



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