

# Schottky Barrier Diode

## RB085B-30

●Applications

General rectification

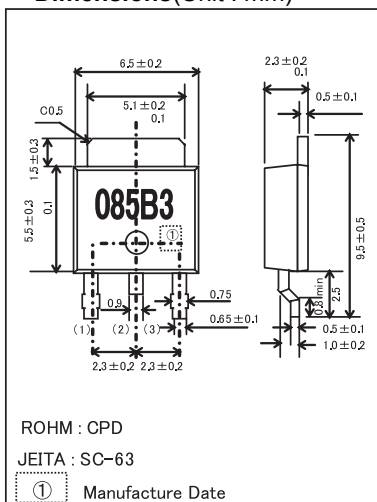
●Features

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

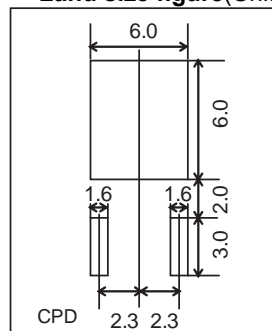
●Construction

Silicon epitaxial planar

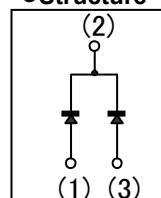
●Dimensions(Unit : mm)



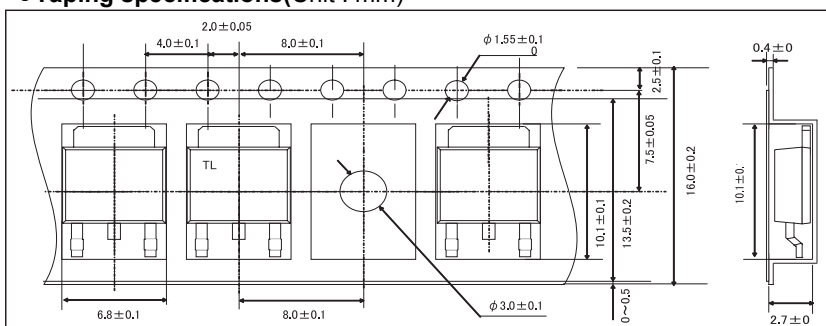
●Land size figure(Unit : mm)



●Structure



●Taping specifications(Unit : mm)



●Absolute maximum ratings (Ta=25°C)

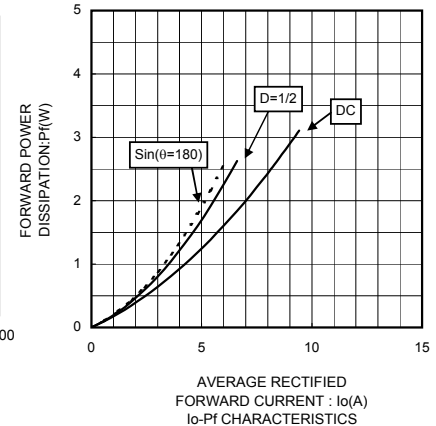
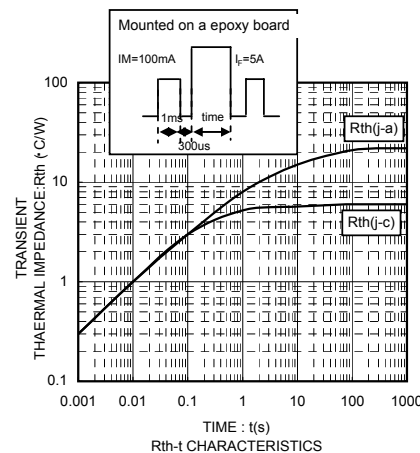
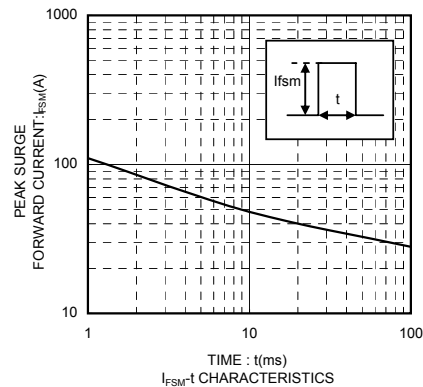
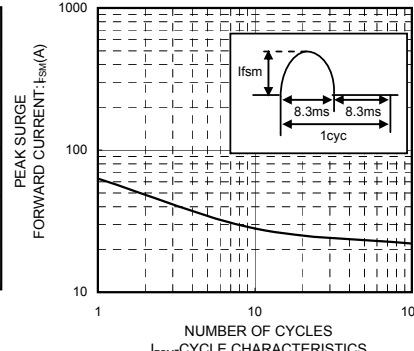
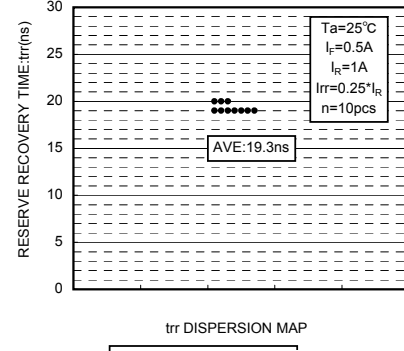
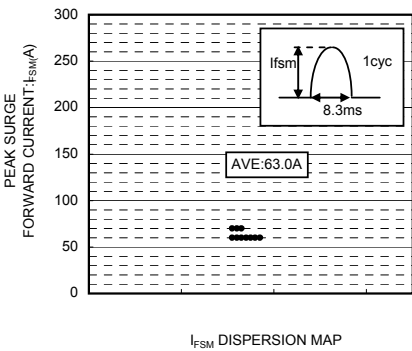
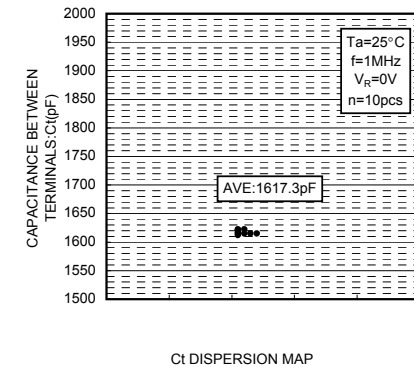
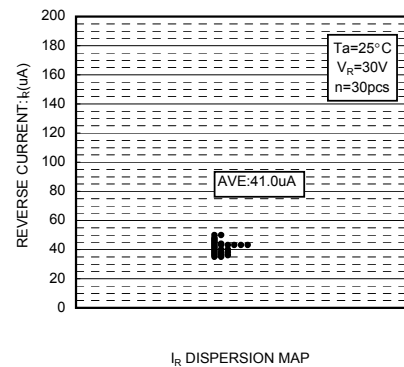
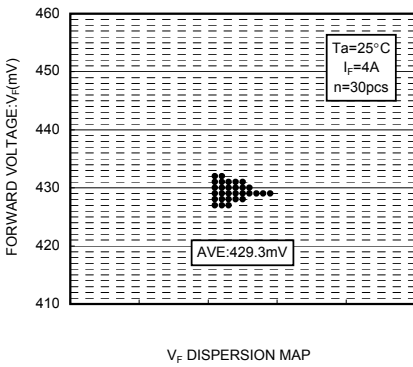
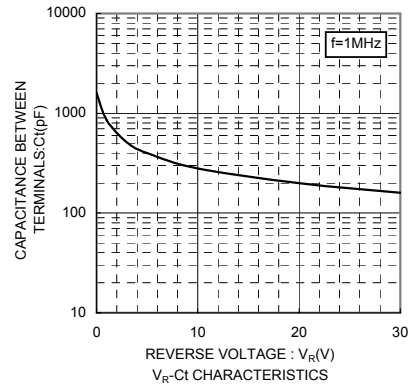
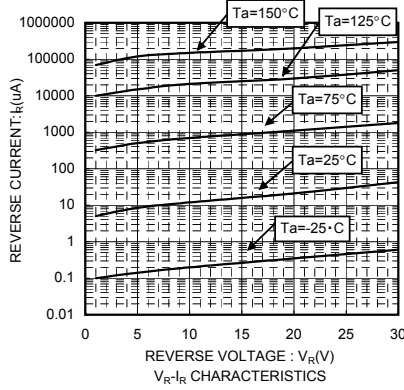
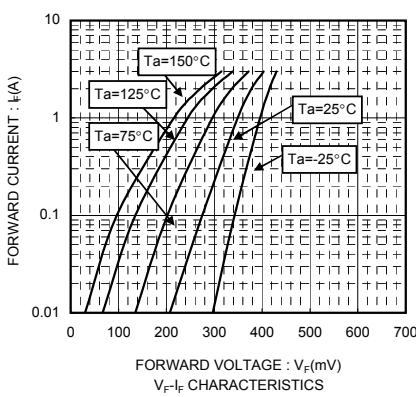
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	35	V
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current(*1)	$I_o$	10	A
Forward current surge peak (60Hz / 1cyc)(*1)	$I_{FSM}$	35	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

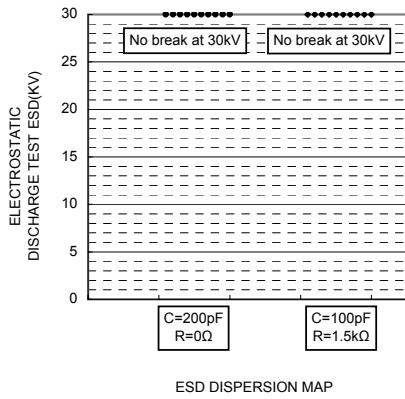
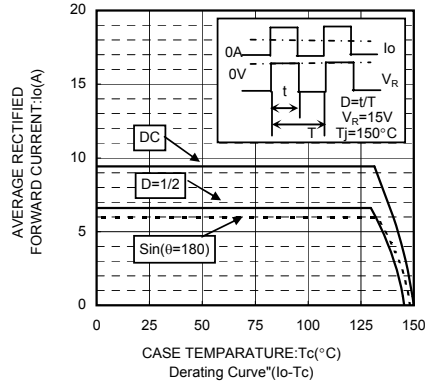
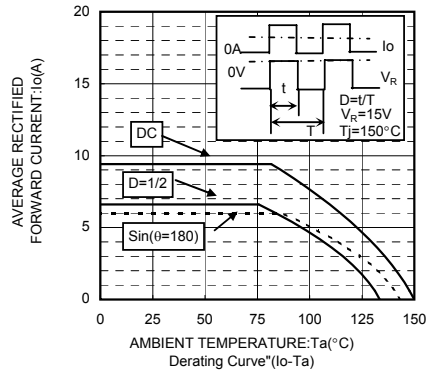
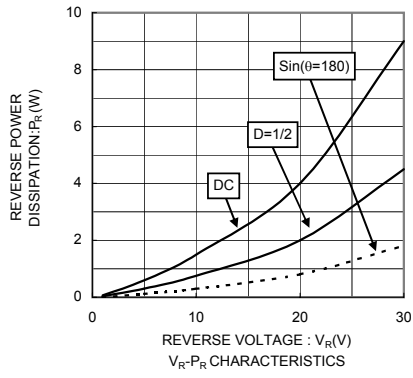
(\*1)Business frequencies, Rating of R-load, 1/2  $I_o$  per diode,  $T_c=105^\circ\text{C}$

●Electrical characteristics (Ta=25°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	°C/W	junction to case

●Electrical characteristics curves





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