

Schottky Barrier Diode

RB085B-30

● **Applications**

General rectification

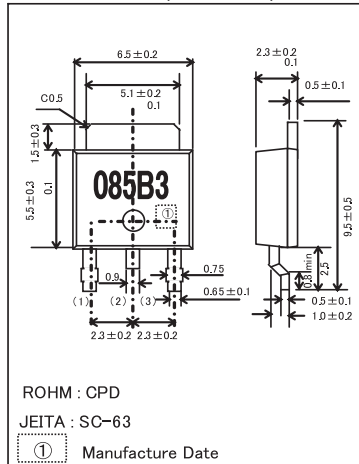
● **Features**

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

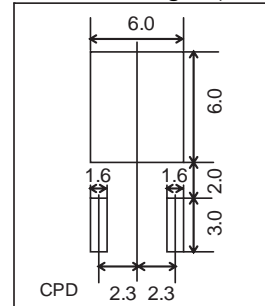
● **Construction**

Silicon epitaxial planar

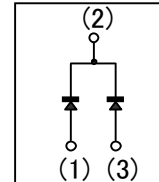
● **Dimensions**(Unit : mm)



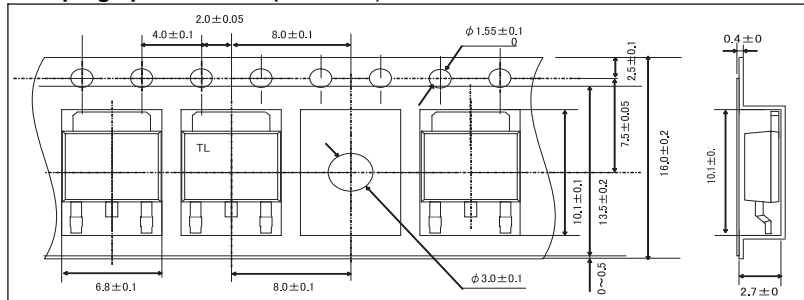
● **Land size figure**(Unit : mm)



● **Structure**



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



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

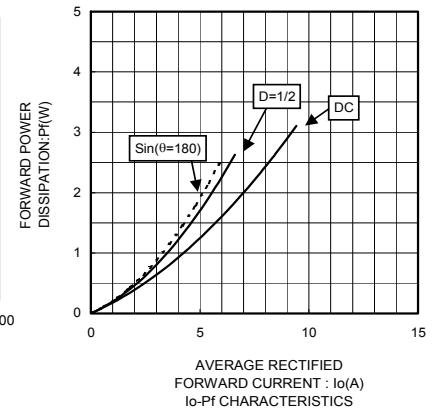
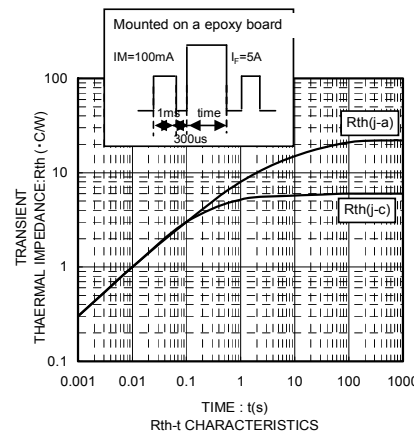
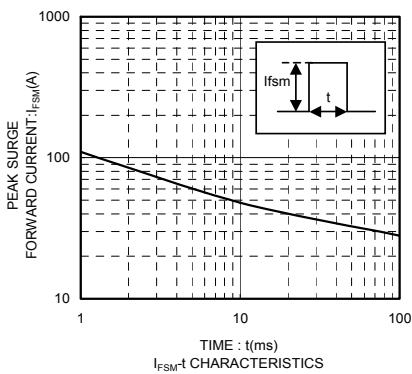
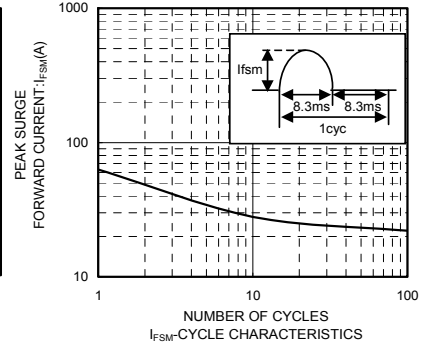
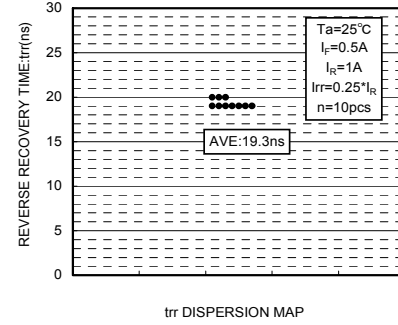
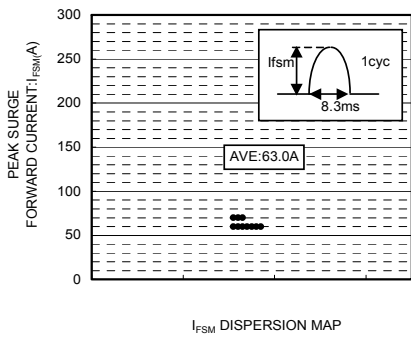
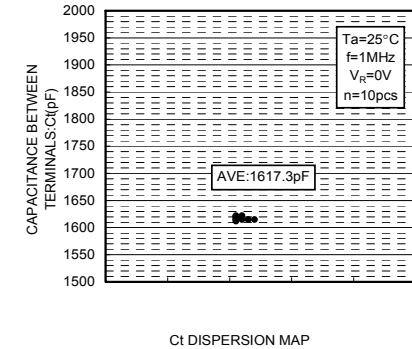
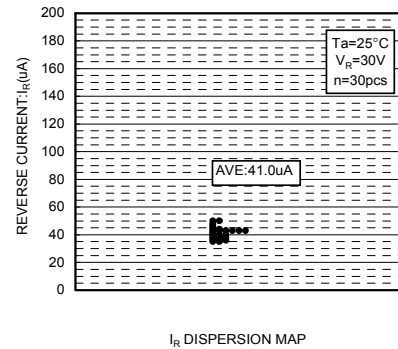
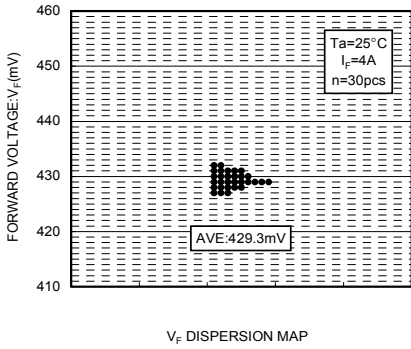
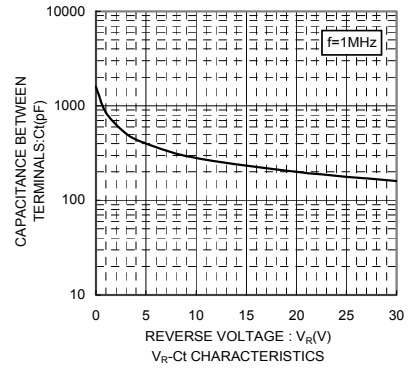
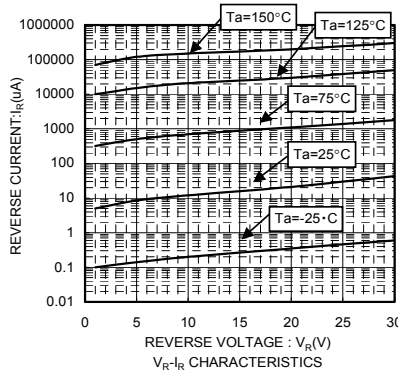
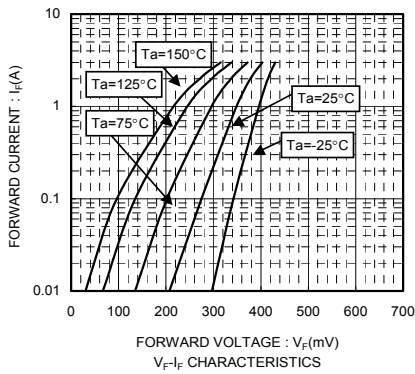
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	35	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current(*1)	I_o	10	A
Forward current surge peak (60Hz / 1cyc)(*1)	I_{FSM}	35	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

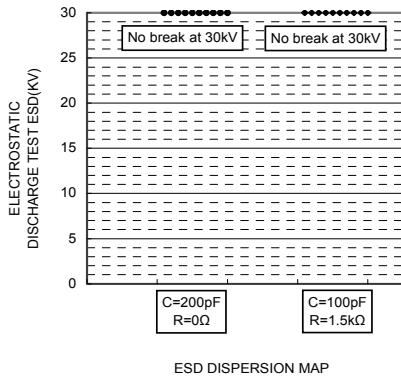
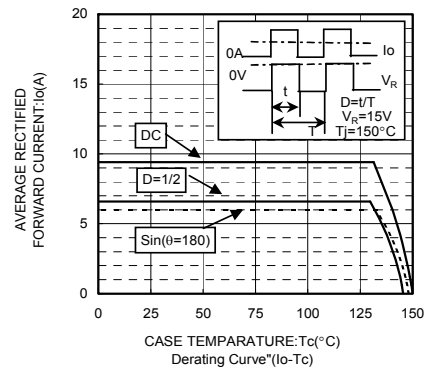
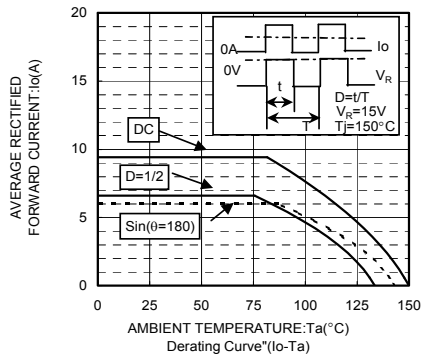
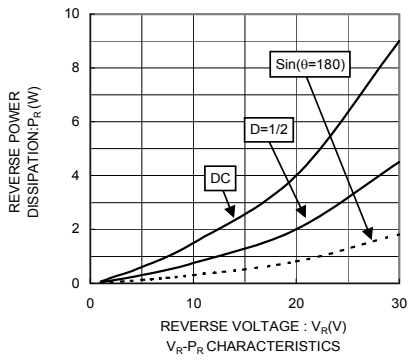
(*1)Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=105^\circ\text{C}$

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

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	μA	$V_R=30\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	$^\circ\text{C/W}$	junction to case

●Electrical characteristics curves





Notes

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