

Diodes

Schottky barrier diode

RB085B-30

●Applications

General rectification

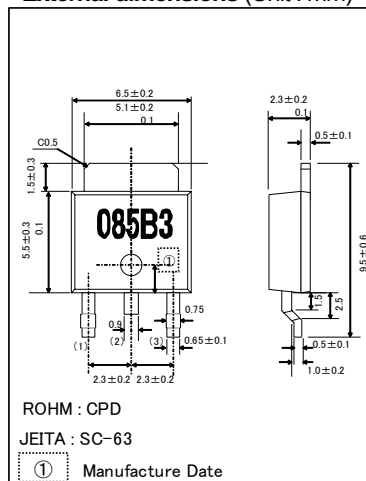
●Features

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

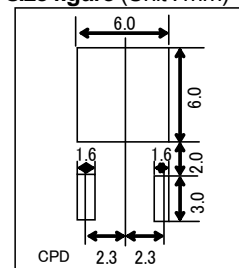
●Construction

Silicon epitaxial planar

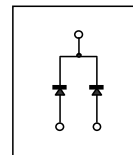
●External dimensions (Unit : mm)



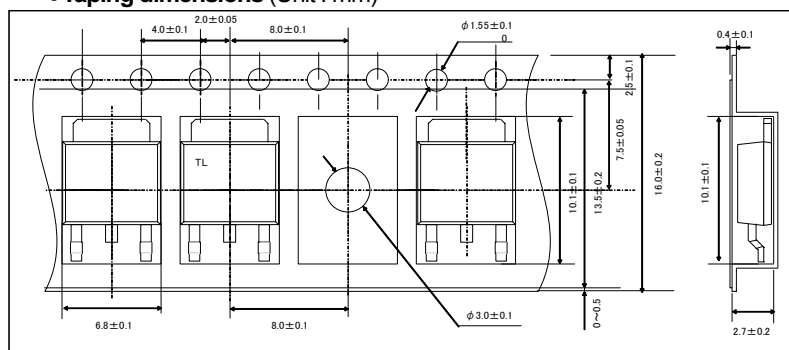
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

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

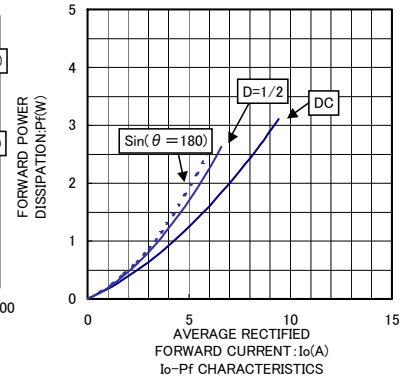
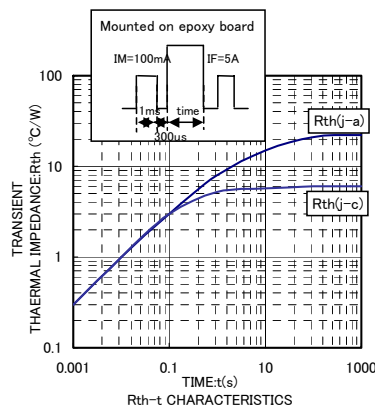
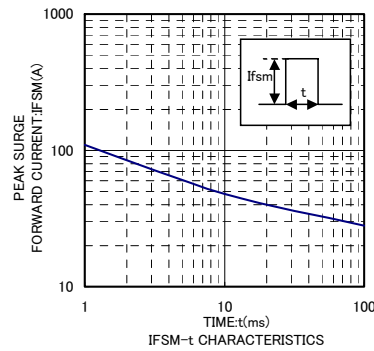
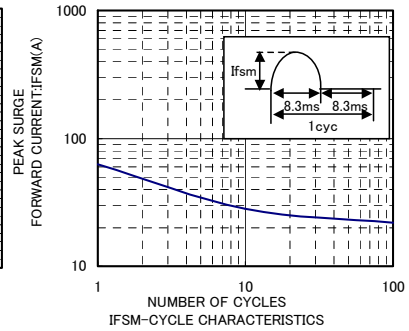
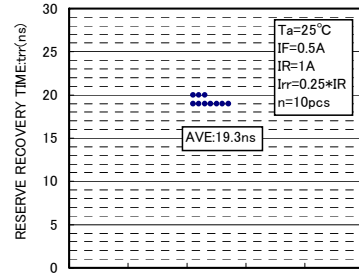
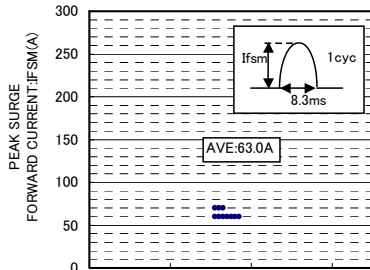
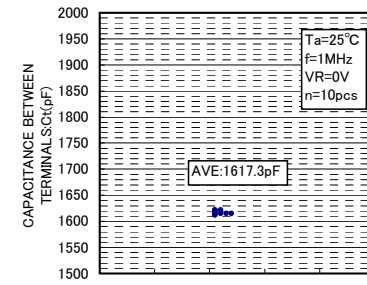
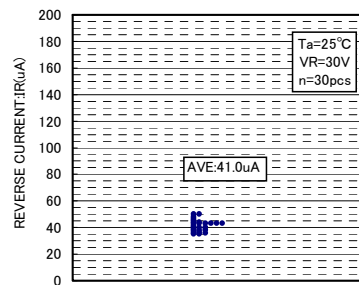
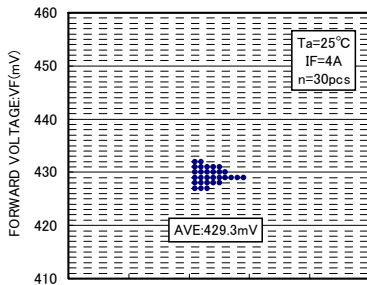
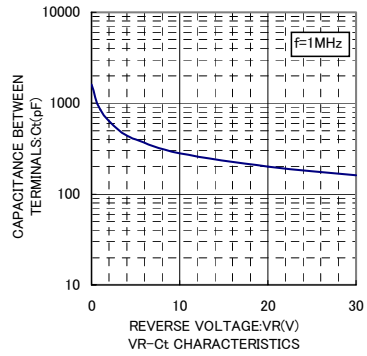
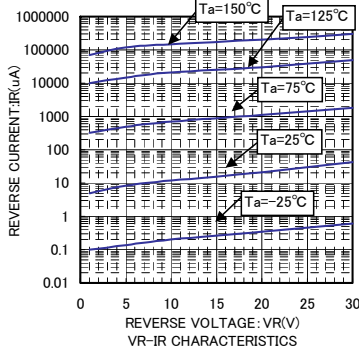
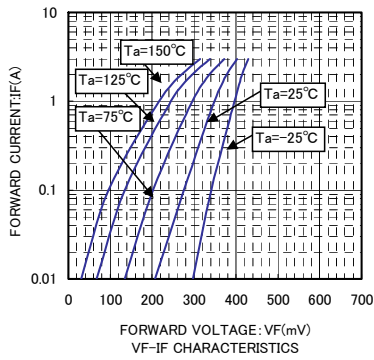
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	35	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	10	A
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	35	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

(*1)Rating of per diode : $I_o/2$ ●Electrical characteristic ($T_a=25^\circ\text{C}$)

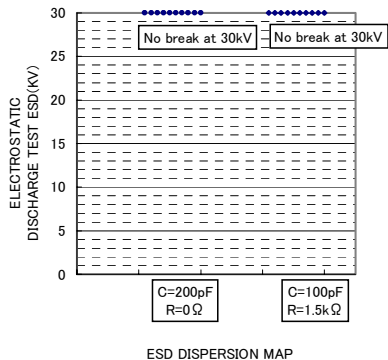
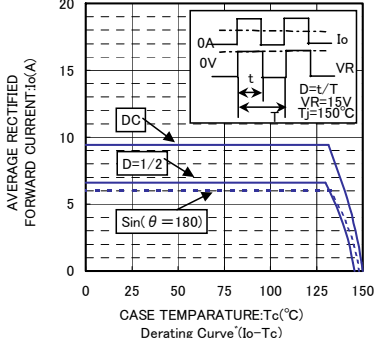
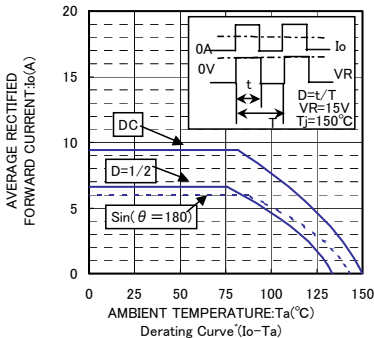
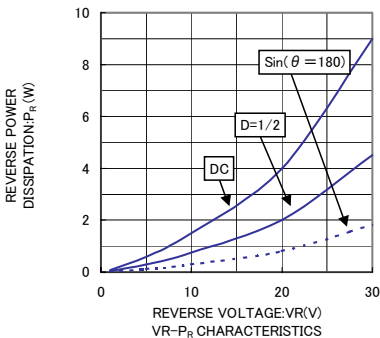
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.48	V	$I_F=4.0\text{A}$
Reverse current	I_R	-	-	300	μA	$V_R=30\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	$^\circ\text{C}/\text{W}$	junction to case

Diodes

●Electrical characteristic curves



Diodes



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