

Schottky barrier diode

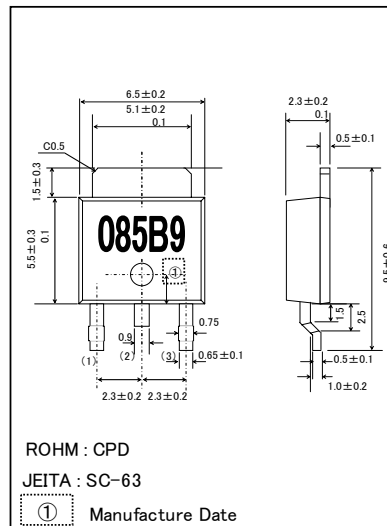
RB085B-90

●Applications
General rectification

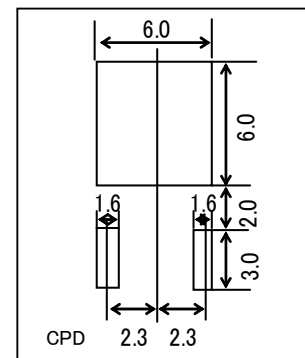
●Features
1) Power mold type. (CPD)
2) Low V_F
3) High reliability

●Construction
Silicon epitaxial planar

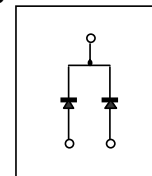
●Dimensions (Unit : mm)



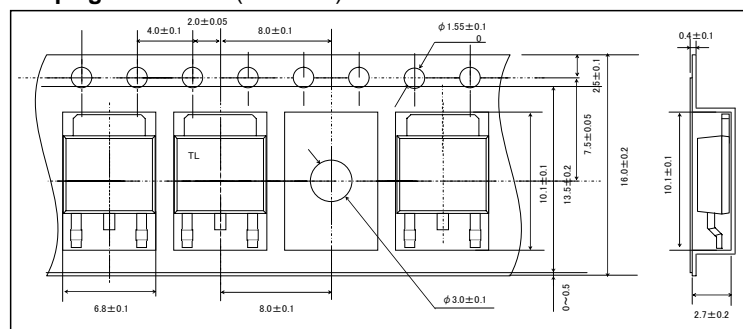
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	90	V
Reverse voltage (DC)	V_R	90	V
Average rectified forward current (*1)	I_O	10	A
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	45	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +150	$^\circ\text{C}$

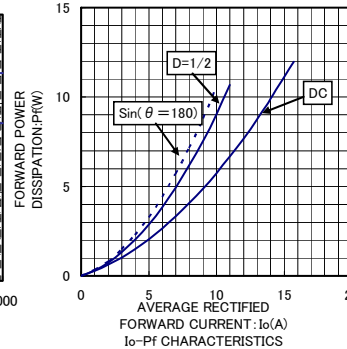
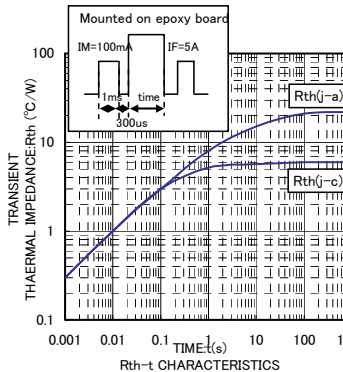
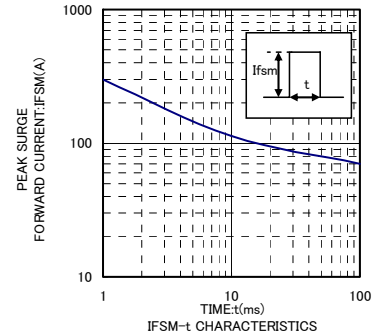
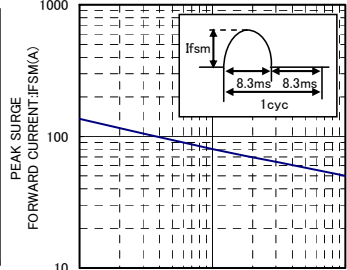
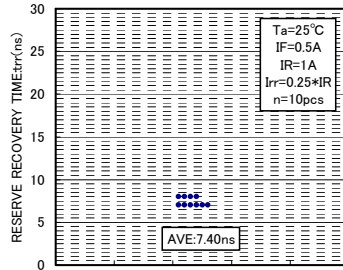
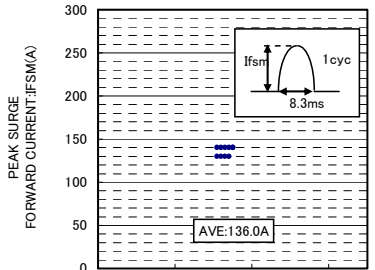
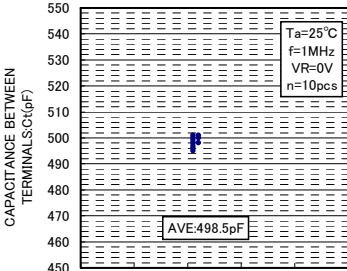
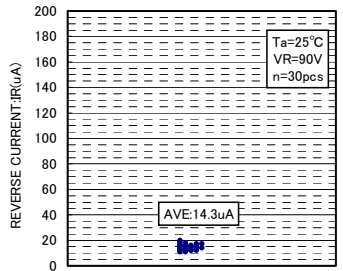
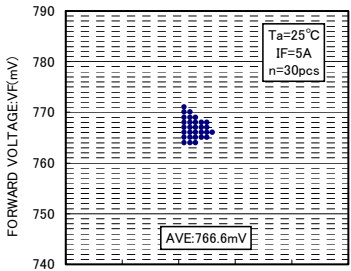
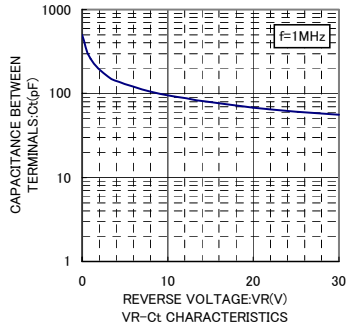
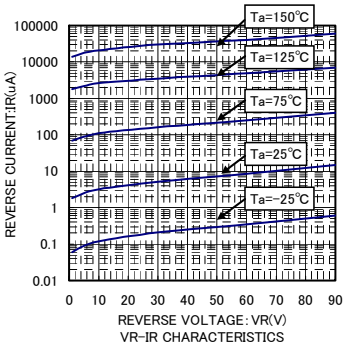
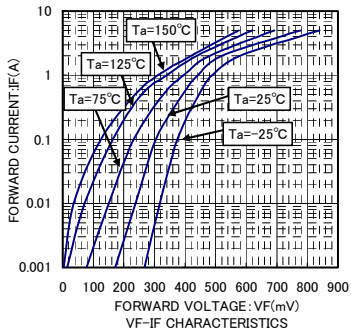
(*1)Rating of per diode : $I_O/2$

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

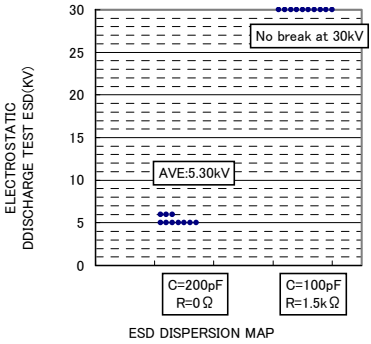
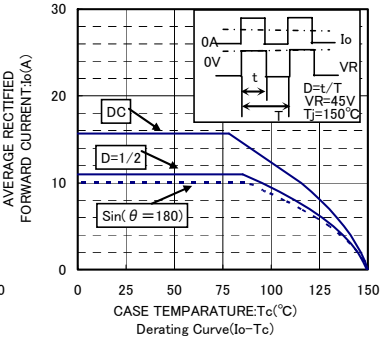
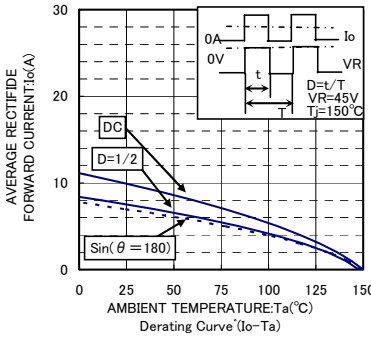
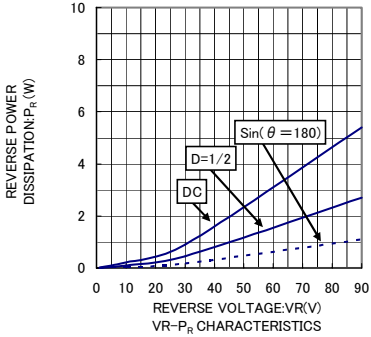
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.83	V	$I_F=5.0\text{A}$
Reverse current	I_R	-	-	150	μA	$V_R=90\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	$^\circ\text{C/W}$	junction to case

Diodes

●Electrical characteristic curves



Diodes



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