

Schottky barrier diode

RB095B-90

● Applications

General rectification

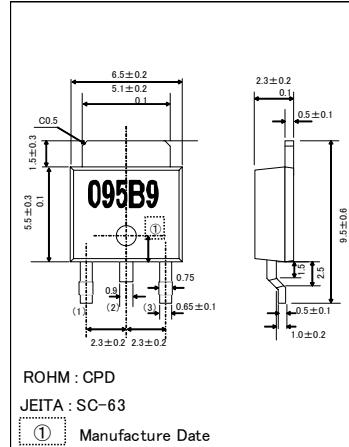
● Features

- 1) Power mold type. (CPD3)
- 2) Low V_F
- 3) High reliability

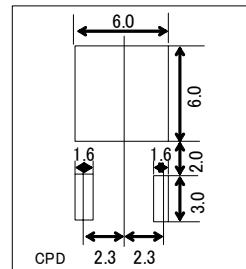
● Construction

Silicon epitaxial planar

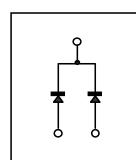
● External dimensions (Unit : mm)



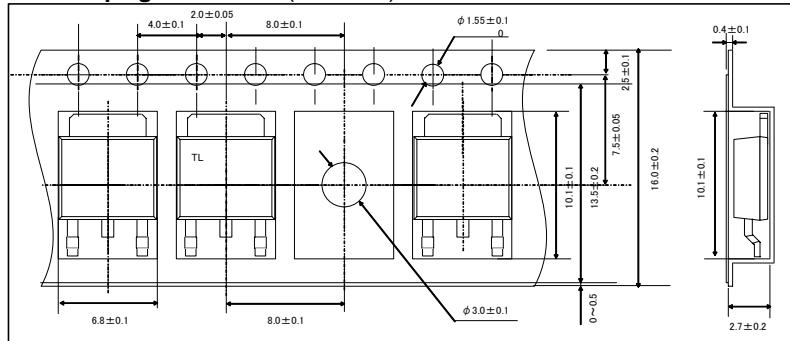
● Land size figure



● Structure



● Taping dimensions (Unit : mm)



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

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	6	A
Forward current surge peak (60Hz·1cyc) (*1)	I_{FSM}	45	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

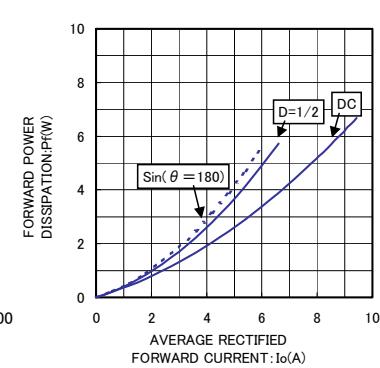
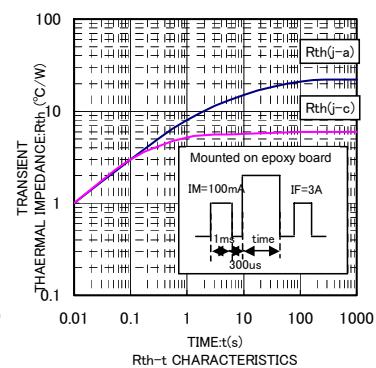
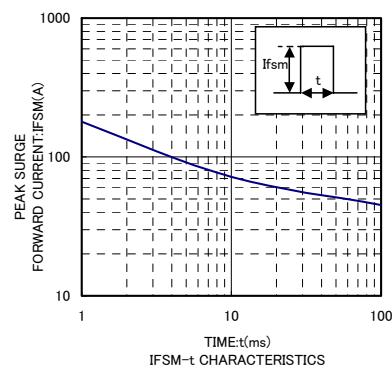
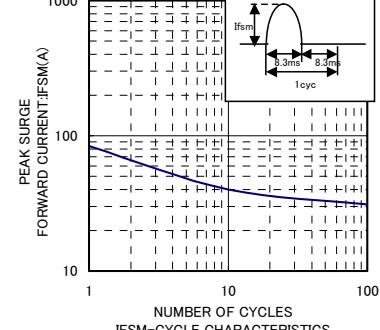
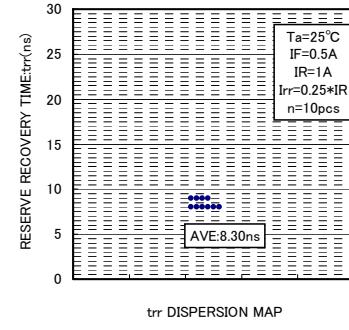
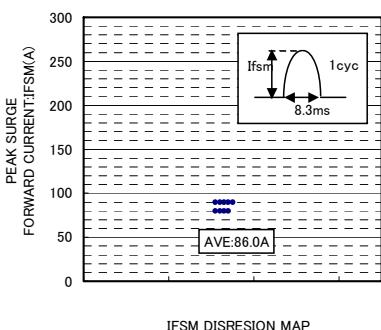
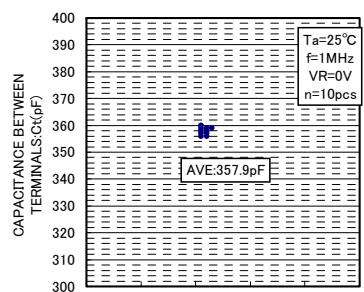
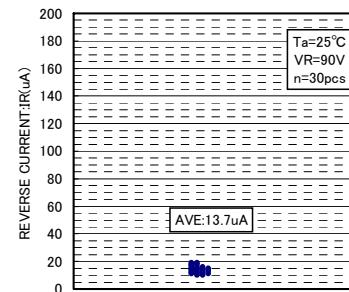
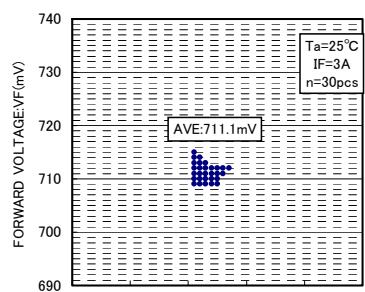
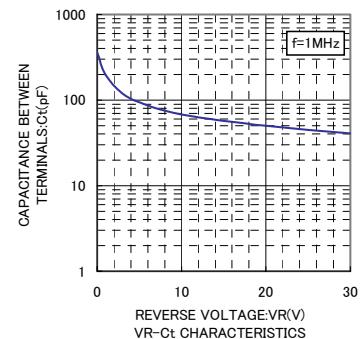
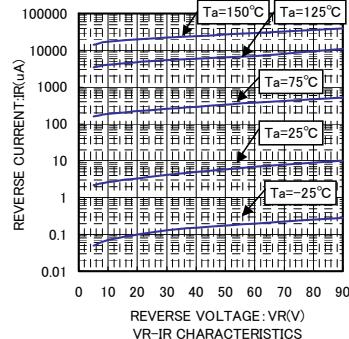
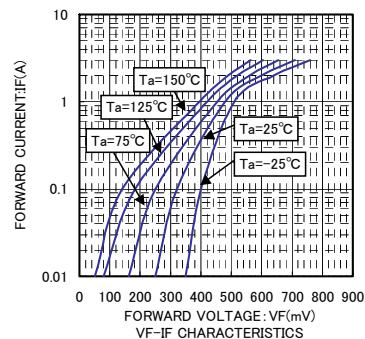
(*1) Rating of per diode : $I_o/2$

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

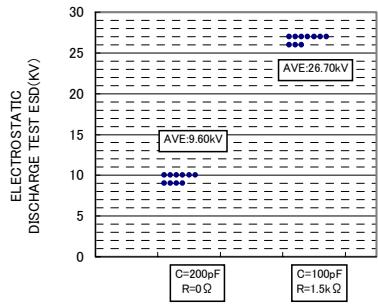
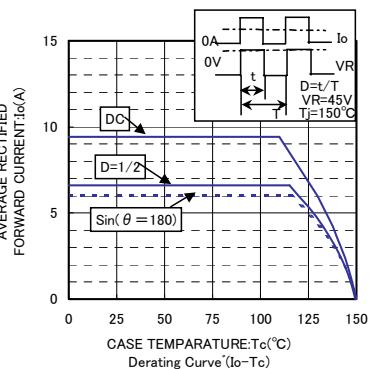
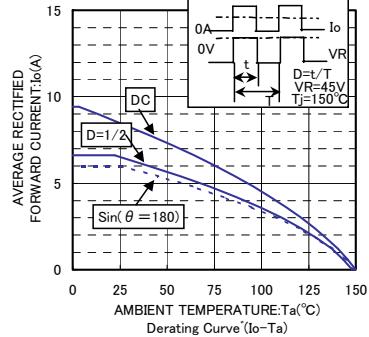
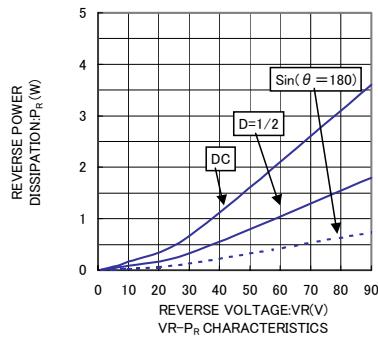
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.75	V	$I_F=3.0A$
Reverse current	I_R	-	-	150	μA	$V_R=90V$
Thermal impedance	θ_{JC}	-	-	6.0	°C/W	junction to case

Diodes

● Electrical characteristic curves



Diodes



Appendix

Notes

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