

RB095B-40

Diodes

Schottky barrier diode (Silicon Epitaxial Planer)

RB095B-40

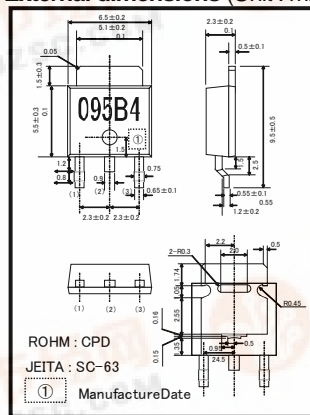
●Applications

General rectification
(Common cathode dual chip)

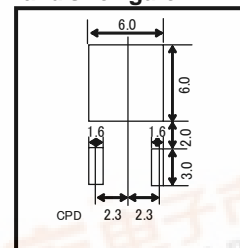
●Features

- 1) Power mold (CPD3)
- 2) High reliability
- 3) Low V_F & Low I_R

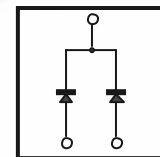
●External dimensions (Unit : mm)



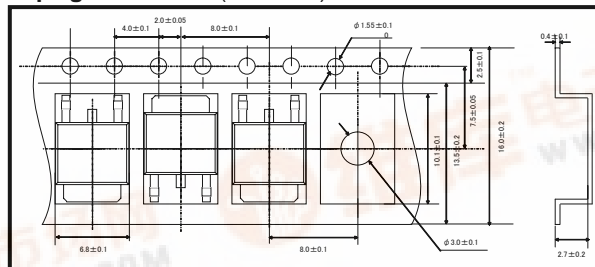
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	45	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current *	I_o	6	A
Forward current surge peak (60Hz · 1cyc.) *	I_{FSM}	45	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

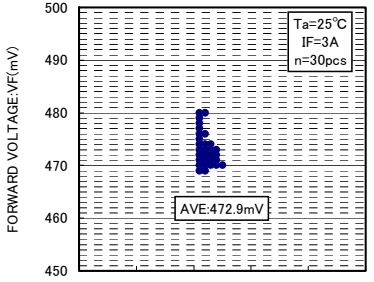
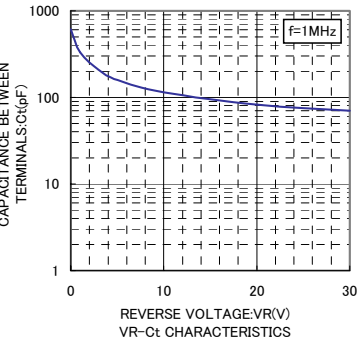
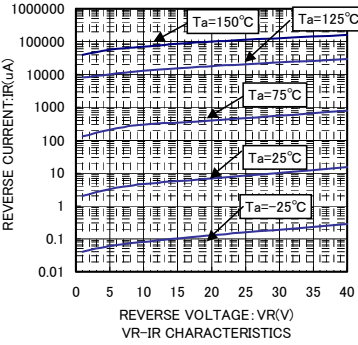
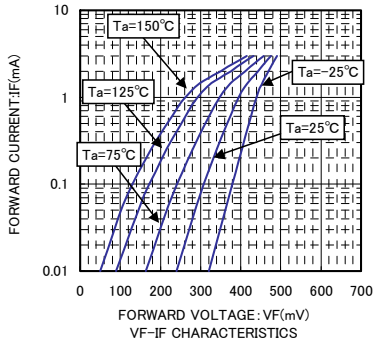
* Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=120^\circ\text{C}$

●Electrical characteristic (Ta=25°C)

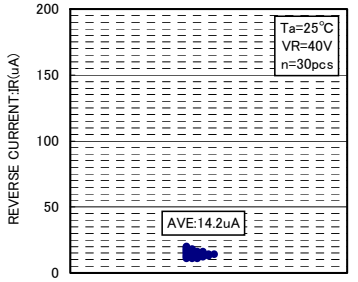
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.55	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	0.1	mA	$V_R=40\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	°C/W	junction to case

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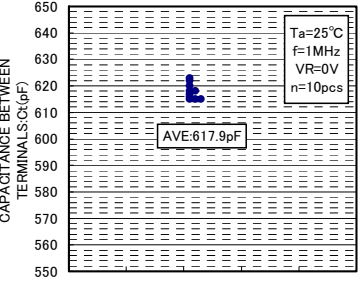
●Electrical characteristic curves



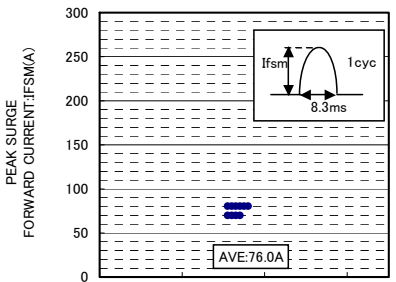
VF DISPERSION MAP



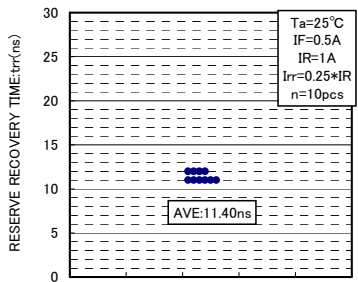
IR DISPERSION MAP



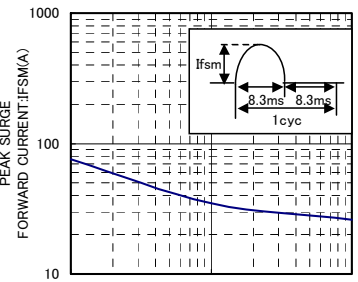
Ct DISPERSION MAP



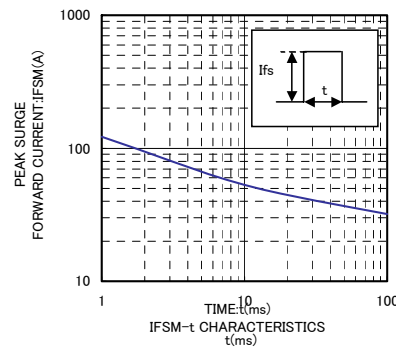
IFSM DISRESION MAP



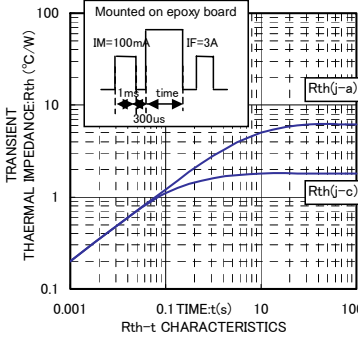
trr DISPERSION MAP



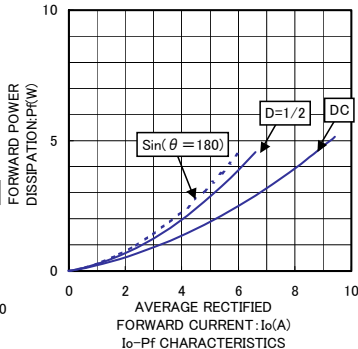
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS

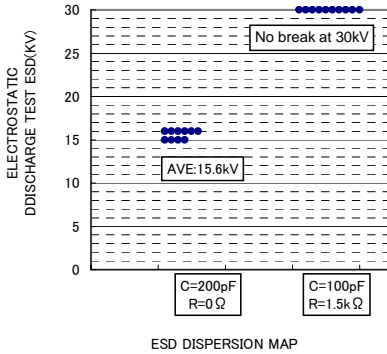
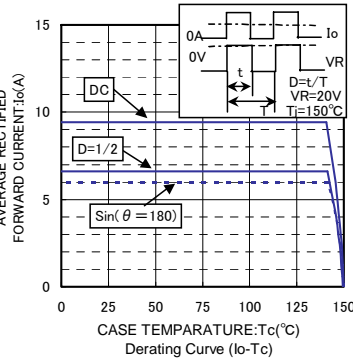
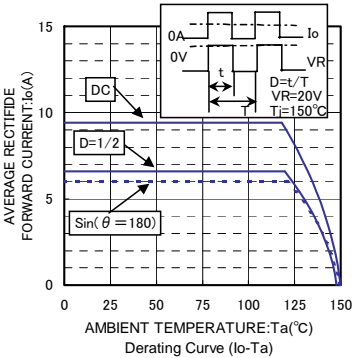
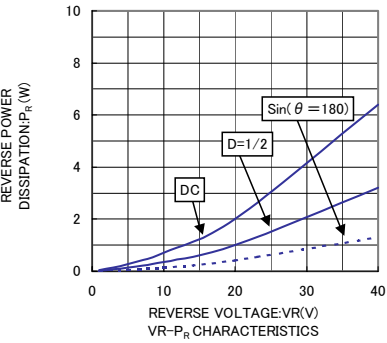


Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

Diodes



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