

Schottky Barrier Diode

RB095B-60

●Applications

General rectification

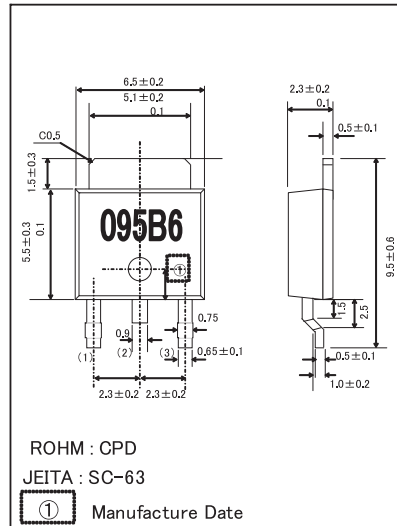
●Features

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

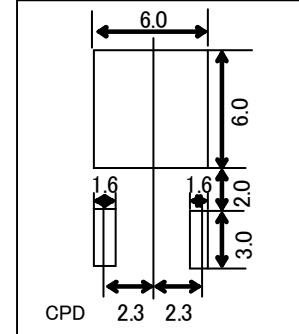
●Construction

Silicon epitaxial planar

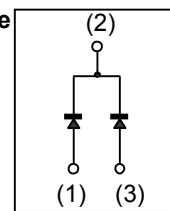
●Dimensions(Unit : mm)



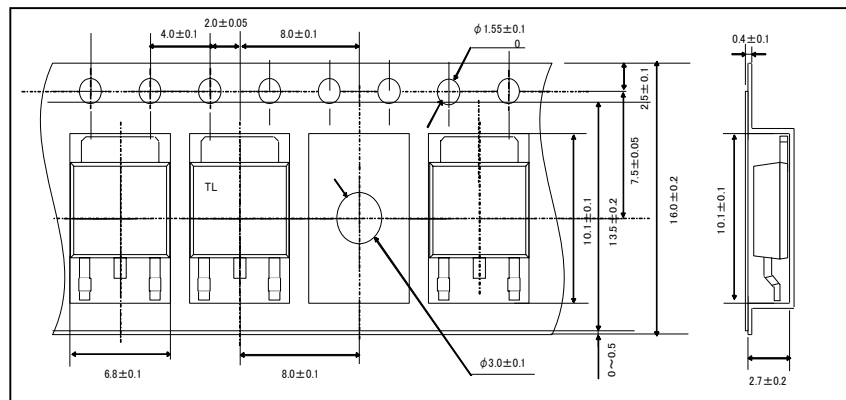
●Land size figure(Unit : mm)



●Structure



●Taping dimensions(Unit : mm)



●Absolute maximum ratings (Ta=25°C)

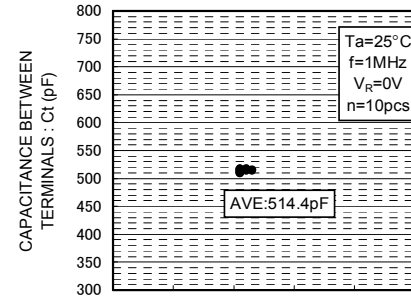
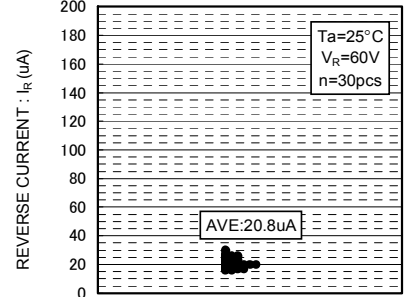
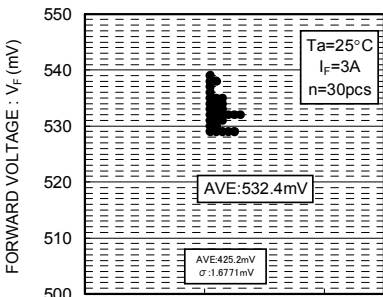
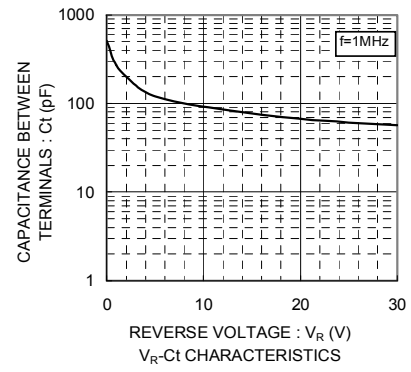
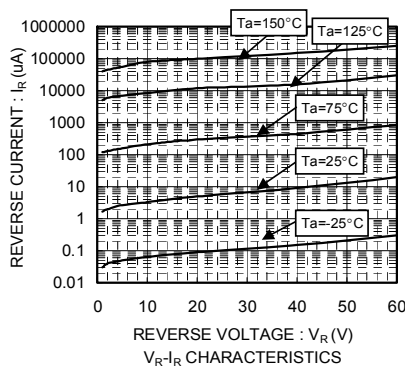
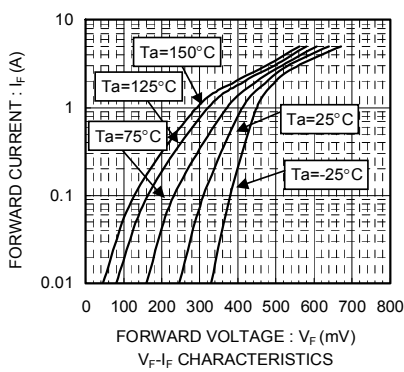
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	I_o	6	A
Forward current surge peak(60Hz·1cyc)(*1)	I_{FSM}	45	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1) Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=112^\circ\text{C}$

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.58	V	$I_F=3.0\text{A}$
Reverse current	I_R	-	-	300	μA	$V_R=60\text{V}$
Thermal impedance	θ_{jc}	-	-	6.0	°C/W	junction to case

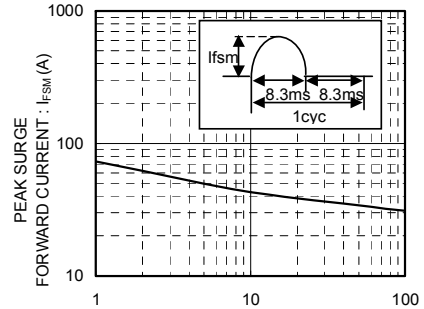
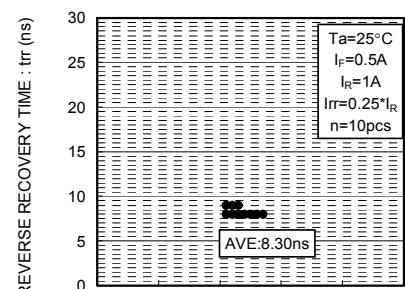
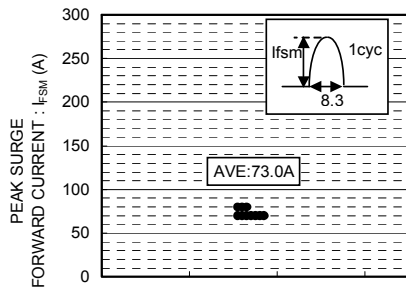
●Electrical characteristics curves



V_f DISPERSION MAP

I_r DISPERSION MAP

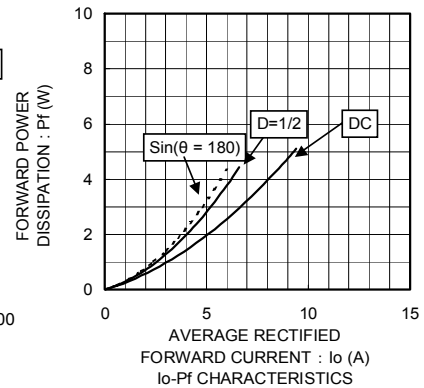
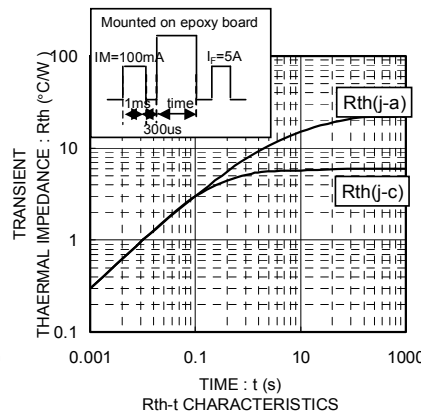
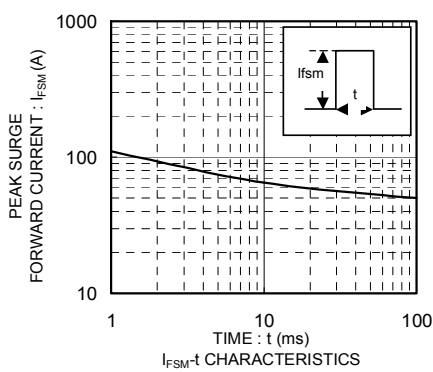
C_t DISPERSION MAP



I_{FSM} DISPERSION MAP

t_{rr} DISPERSION MAP

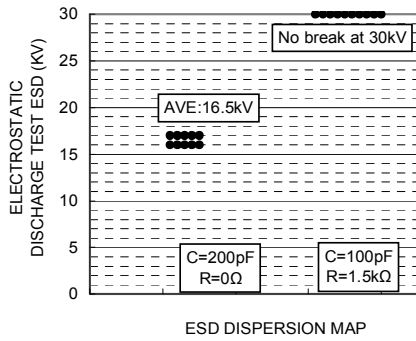
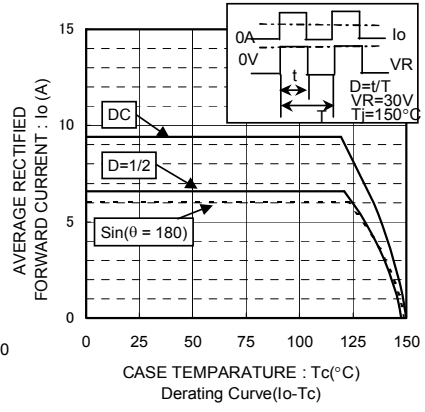
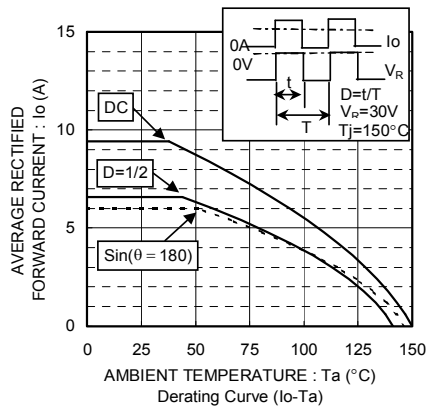
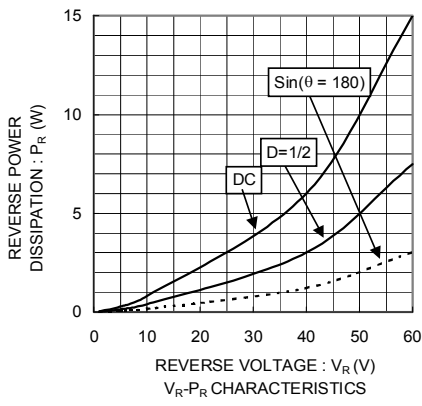
NUMBER OF CYCLES I_{FSM} CYCLE CHARACTERISTICS



I_{FSM} -t CHARACTERISTICS

R_{th} -t CHARACTERISTICS

I_o - P_f CHARACTERISTICS



Notes

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