

Fast Recovery Diode

RF501B2S

Applications

General rectification

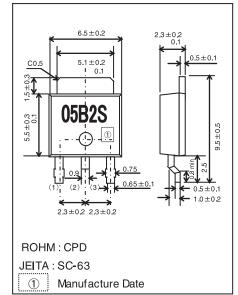
● Features

- 1) Power mold type.(CPD)
- 2) High reliability
- 3) Low V_F
- 4) Very fast recovery
- 5) Low switching loss

Construction

Silicon epitaxial planar

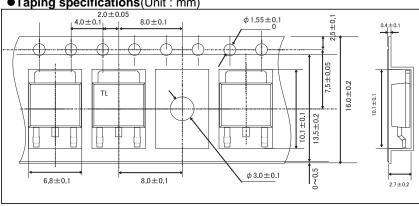
●Dimensions(Unit:mm)



●Land size figure(Unit : mm) CPD

Structure

●Taping specifications(Unit : mm)



● Absolute maximum ratings (Ta=25°C)

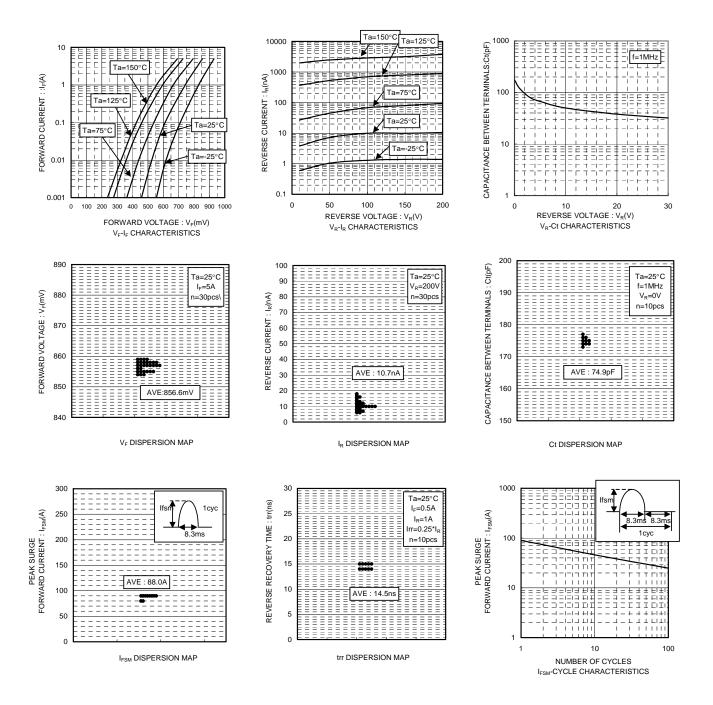
Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V_{RM}	200	V	
Reverse voltage (DC)	V_R	200	V	
Average rectified forward current (*1)	lo	5	Α	
Forward current surge peak (60Hz / 1cyc)(*1)	I _{FSM}	40	Α	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	−55 to +150	°C	

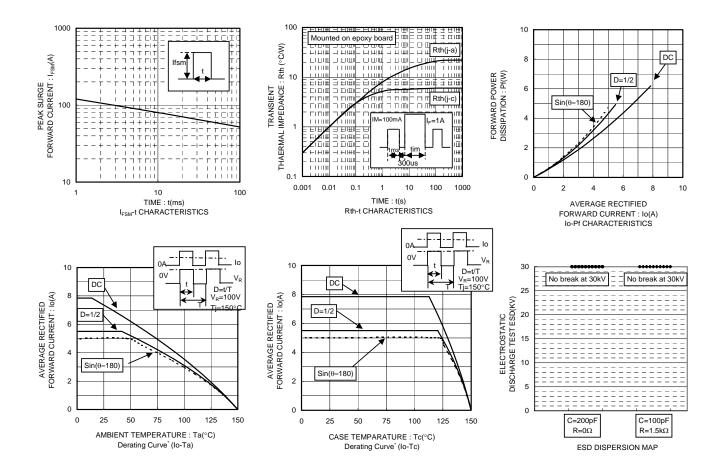
^(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=128°C

●Electrical characteristics(Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	0.86	0.92	V	I _F =5A
Reverse current	I _R	-	0.015	1	μA	V _R =200V
Reverse recovery time	trr	-	15	30	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R

•Electrical characteristic curves





Notes

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