Fast recovery diodes RF601B2D

Applications

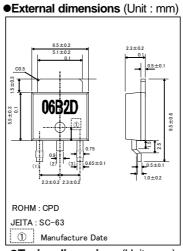
General rectification

● Features

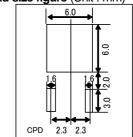
- 1) Power mold type. (CPD)
- 2) Ultra Low VF
- 3) Very fast recovery
- 4) Low switching loss

●Construction

Silicon epitaxial planer



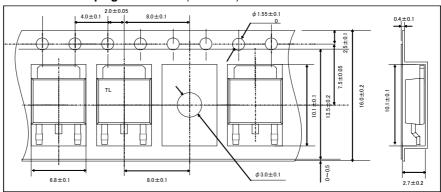
●Land size figure (Unit : mm)



●Structure







Absolute maximum ratings (Ta=25°C)

PADSOIGLE MAXIMUM ratings (14-25 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	6	Α			
Forward current surge peak (60Hz-1cyc)	I _{FSM}	40	Α			
Junction temperature	Tj	150	°C			
Storage temperature	Tstg	-55 ~ +150	°C			

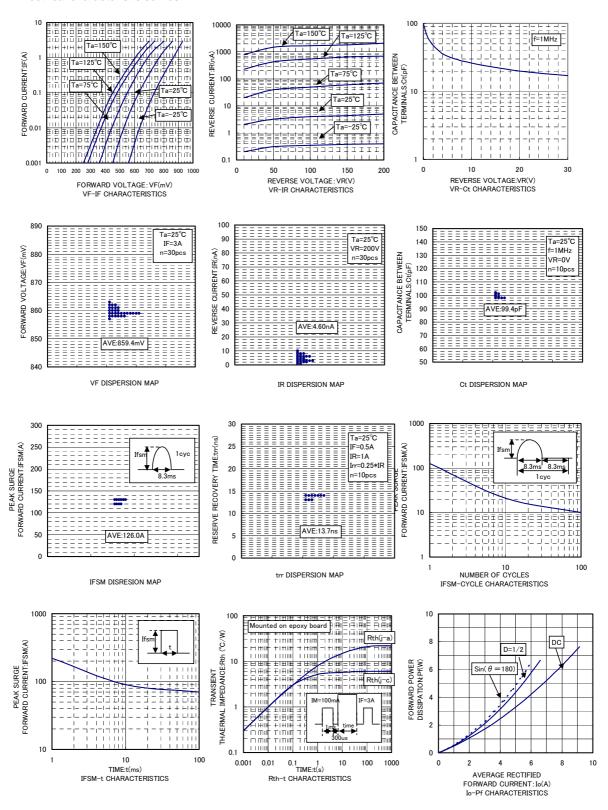
^(*1) Rating of per diode: Io/2

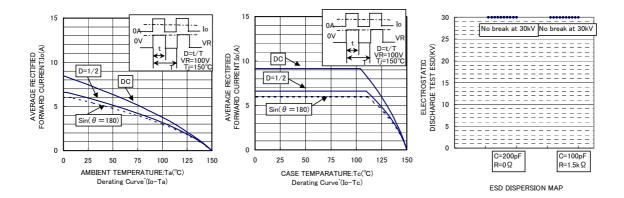
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	0.87	0.93	V	I _F =3A
Reverse current	I_R	-	0.01	10	μΑ	V _R =200V
Reverse recovery time	trr	-	14	25	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R
Thermal impedance	heta jc	-	-	6.0	°C/W	JUNCTION TO CASE



Electrical characteristic curves





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