Fast recovery diodes RF601B2D

Applications

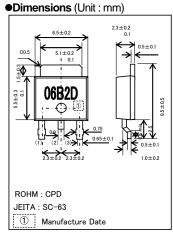
General rectification

●Features

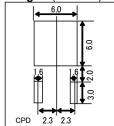
- 1) Power mold type. (CPD)
- 2) Ultra Low V_F
- 3) Very fast recovery
- 4) Low switching loss

●Construction

Silicon epitaxial planer



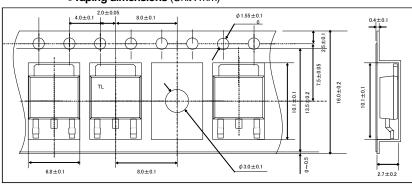




●Structure







● 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	6	Α
Forward current surge peak (60Hz-1cyc)	I _{FSM}	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

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

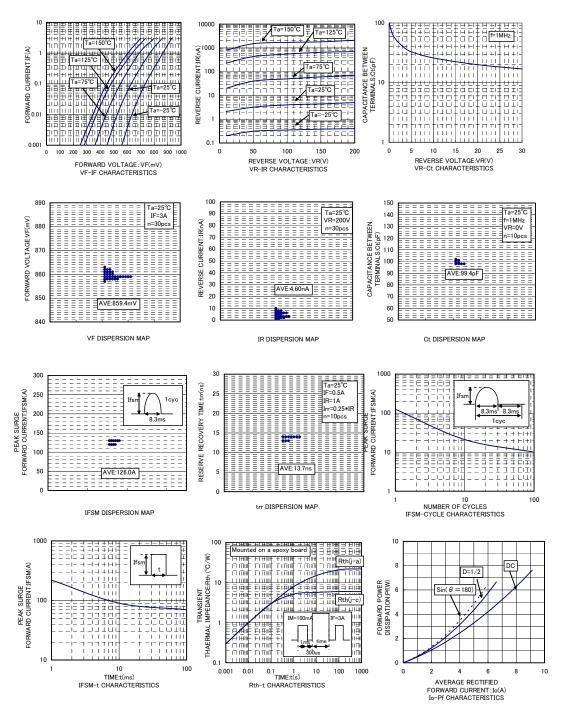
●Electrical characteristic (Ta=25°C)

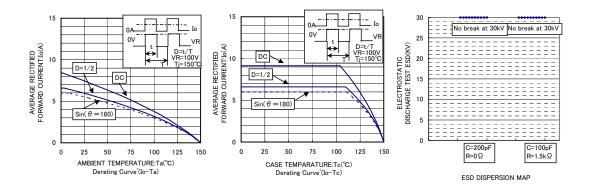
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	0.87	0.93	V	I _F =3A
Reverse current	I _R	-	0.01	10	μΑ	V _R =200V
Reverse recovery time	trr	-	14	25	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R
Thermal impedance	hetajc	-	-	6.0	°C/W	JUNCTION TO CASE

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•Electrical characteristic curves





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