

Fast recovery diodes

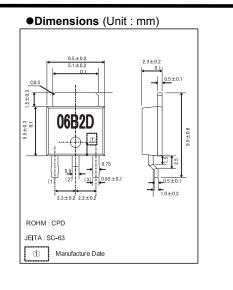
RF601B2D

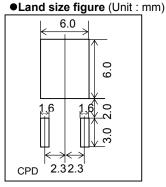
•Applications General rectification

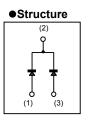
Features

Power mold type.(CPD)
Ultra Low V_F
Very fast recovery
Low switching loss

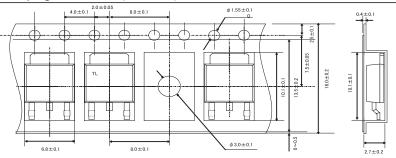
•Construction Silicon epitaxial planer







• Taping dimensions (Unit : mm)



•Absolute maximum ratings (Ta=25°C)

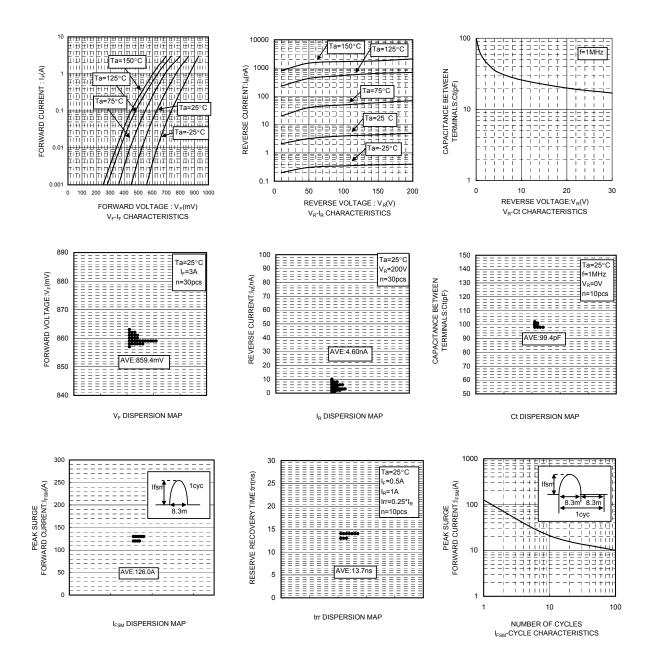
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V _{RM}	200	V
Reverse voltage (DC)	V _R	200	V
Average rectified forward current (*1)	lo	6	А
Forward current surge peak (60Hz/1cyc)	I _{FSM}	40	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

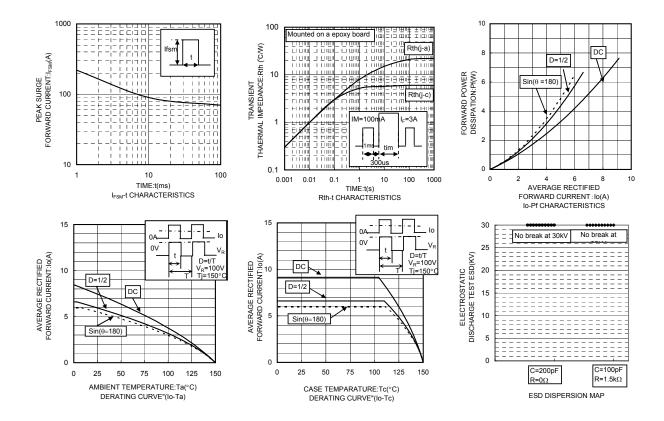
(*1) Business frequencies, Rating of R-load, Tc=128°C, 1/2 lo per diode

•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	μA	V _R =200V
Reverse recovery time	trr	-	14	25	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R
Thermal impedance	θјс	-	-	6	°C/W	JUNCTION TO CASE

•Electrical characteristic curves





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