

# Fast recovery diodes

### **RF601B2D**

#### Applications

General rectification

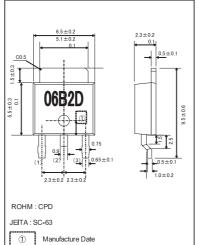
#### ● Features

- 1)Power mold type.(CPD)
- 2)Ultra Low V<sub>F</sub>
- 3)Very fast recovery
- 4)Low switching loss

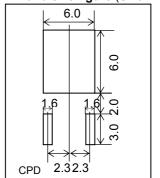
#### ● Construction

Silicon epitaxial planer

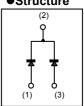
# ●Dimensions (Unit : mm)



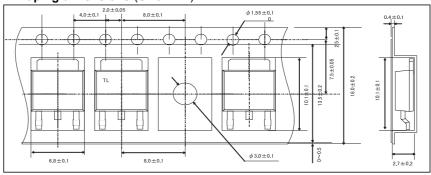
# ●Land size figure (Unit : mm)



#### ●Structure



#### ● Taping dimensions (Unit : mm)



#### ●Absolute maximum ratings (Ta=25°C)

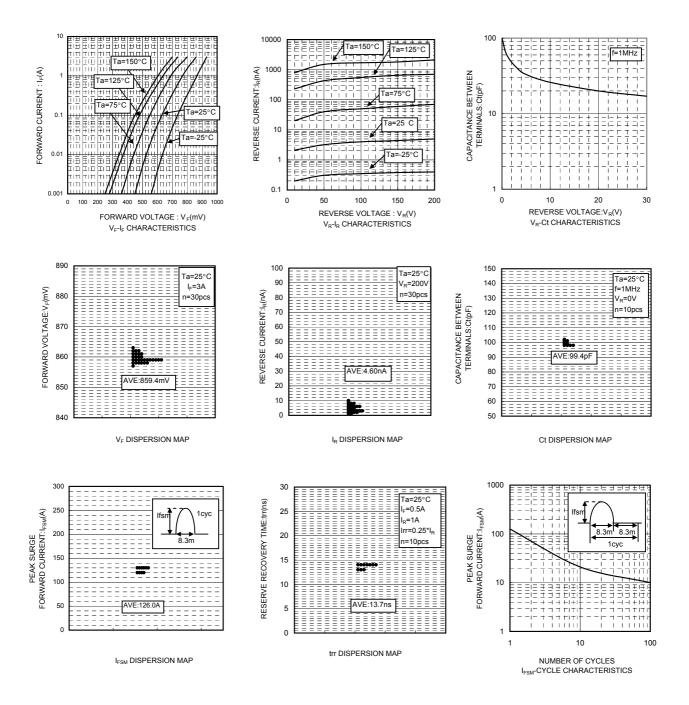
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current (*1)	lo	6	Α
Forward current surge peak (60Hz/1cyc)	I <sub>FSM</sub>	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

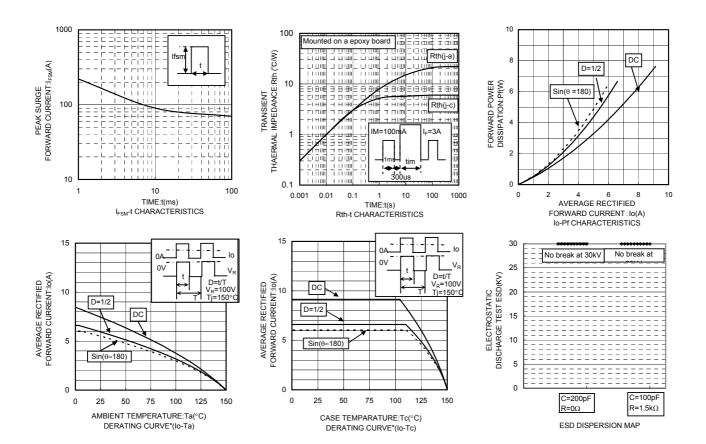
<sup>(\*1)</sup> Business frequencies, Rating of R-load, Tc=128°C, 1/2 lo per diode

## ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	0.87	0.93	V	I <sub>F</sub> =3A
Reverse current	I <sub>R</sub>	-	0.01	10	μΑ	V <sub>R</sub> =200V
Reverse recovery time	trr	-	14	25	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25*I <sub>R</sub>
Thermal impedance	θјс	1	-	6	°C/W	JUNCTION TO CASE

#### •Electrical characteristic curves





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