

Data Sheet



# Fast Recovery Diode

### **RF301B2S**

#### Applications

General rectification

## Features

Power mold type(CPD)
Ultra Low V<sub>F</sub>
Very fast recovery
Low switching loss

#### Construction

Silicon epitaxial planar









•Taping specifications(Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V <sub>RM</sub>	200	V
Reverse voltage (DC)	V <sub>R</sub>	200	V
Average rectified forward current(*1)	lo	3	A
Forward current surge peak (60Hz / 1cyc)(*1)	I <sub>FSM</sub>	40	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

(\*1)Bussiness frequencies, Rating of R-load, Tc=128°C MAX.

#### •Electrical characteristics(Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	0.87	0.93	V	I <sub>F</sub> =3A
Reverse current	I <sub>R</sub>	-	10nA	10	μA	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	-	-	6	°C/W	JUNCTION TO CASE

#### •Electrical characteristics curves





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