



# Super Fast Recovery Diode RFN5B3S

#### Serise

Standard Fast Recovery

#### Applications

General rectification

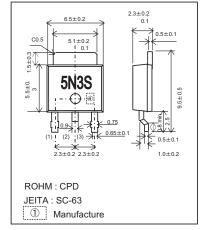
#### Features

- 1)Power mold type(CPD)
- 2)Low switching Loss
- 3)High current overload capacity

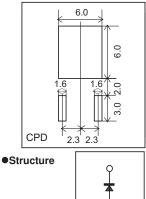
#### Construction

Silicon epitaxial planer type

#### ●Dimensions(Unit:mm)

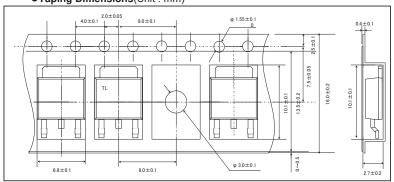


#### ●Land Size Figure(Unit : mm)





## ●Taping Dimensions(Unit:mm)

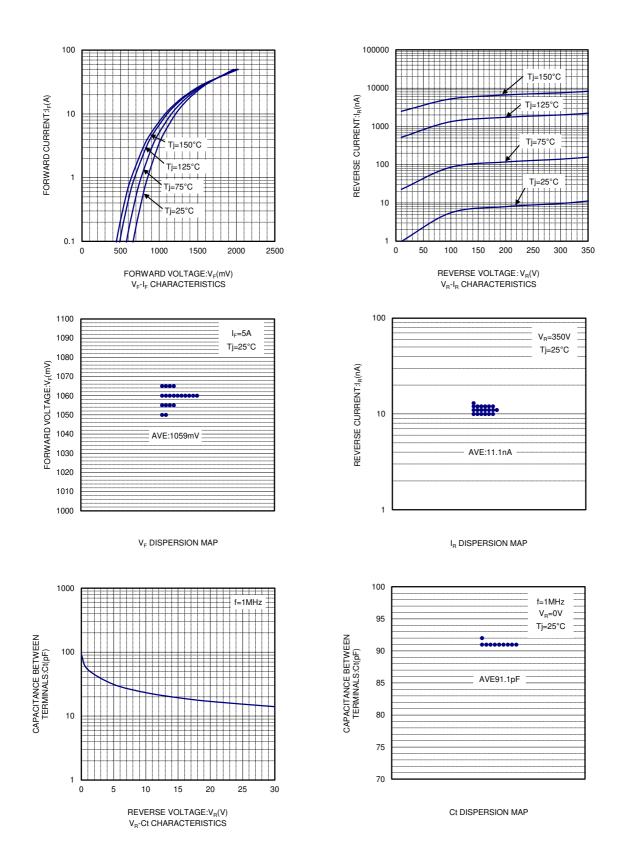


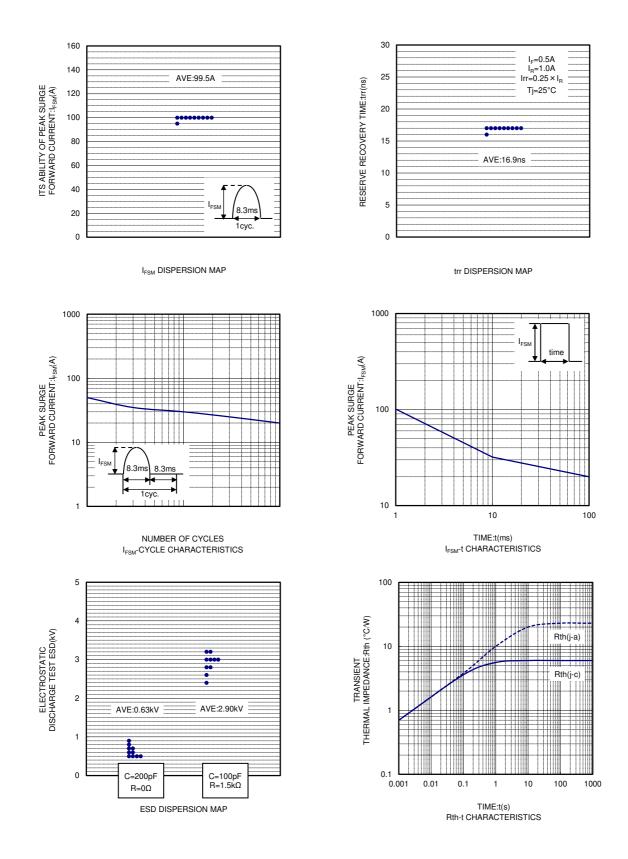
## ● Absolute Maximum Ratings(Tc=25°C)

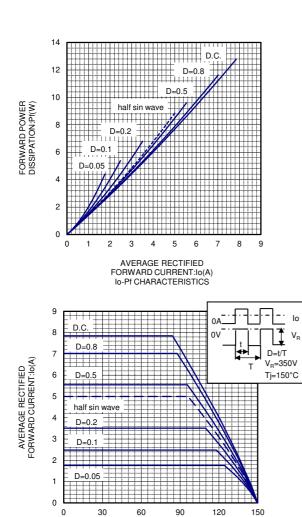
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	350	V	
Reverse voltage	V <sub>R</sub>	Direct voltage		350	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=95°C	5	Α
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave , Non-repetitive at Tj=25°C		50	Α
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

### ●Electrical Characteristics(Tj=25°C)

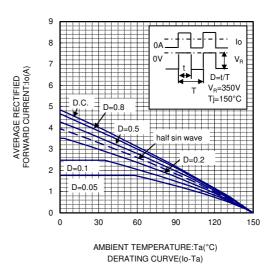
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =5A	_	1.1	1.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =350V	_	0.05	10	μA
Reverse recovery time	trr	$I_F$ =0.5A, $I_R$ =1A, $I_R$ =0.25× $I_R$	_	20	30	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	6.0	°C/W







CASE TEMPARATURE:Tc(°C)
DERATING CURVE(Io-Tc)



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