



Super Fast Recovery Diode RFN5B3S

Serise

Standard Fast Recovery

Applications

General rectification

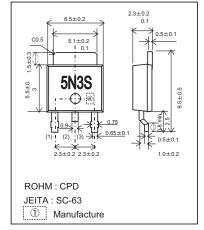
Features

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

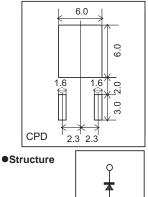
Construction

Silicon epitaxial planer type

●Dimensions(Unit:mm)

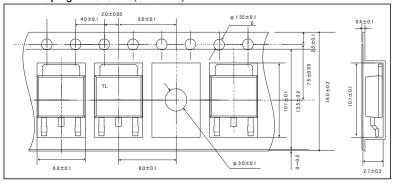


●Land Size Figure(Unit : mm)





●Taping Dimensions(Unit:mm)

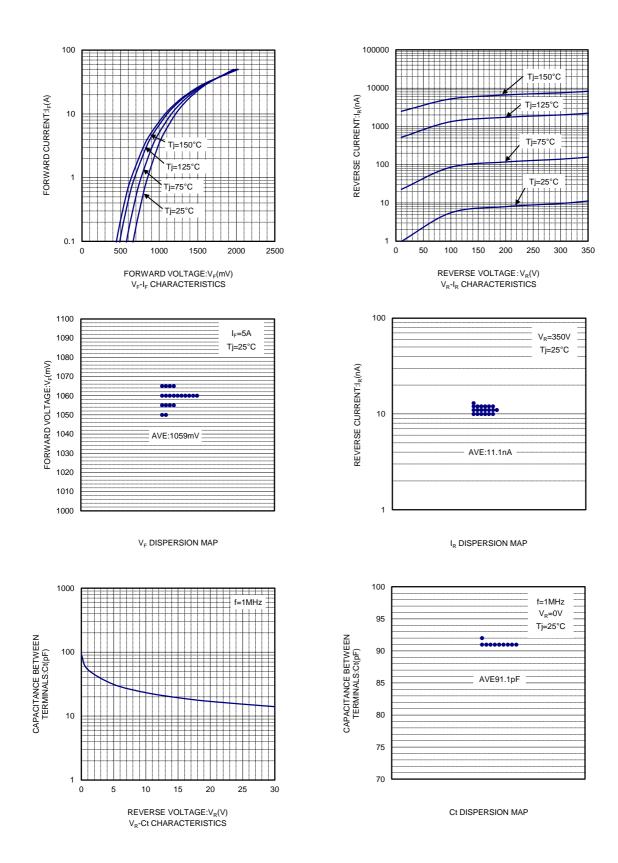


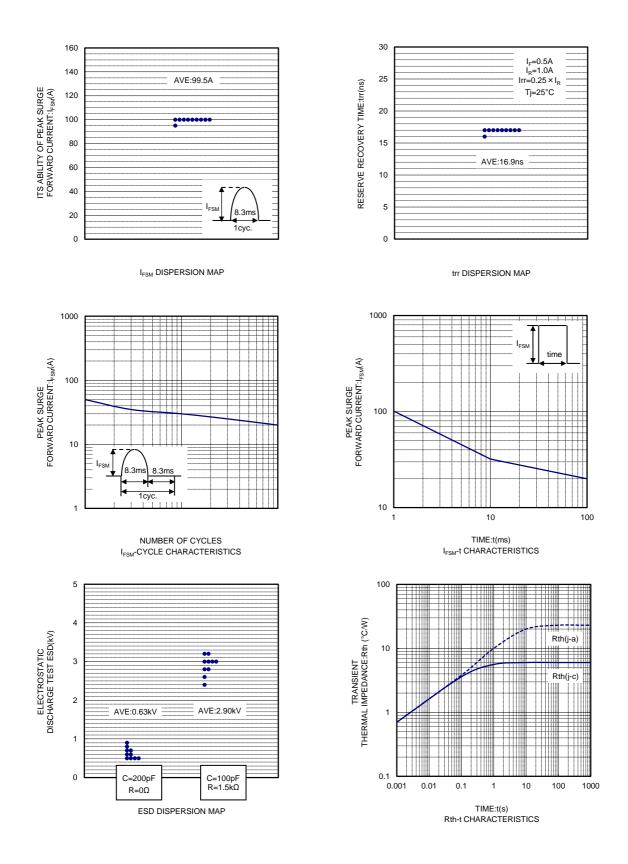
● Absolute Maximum Ratings(Tc=25°C)

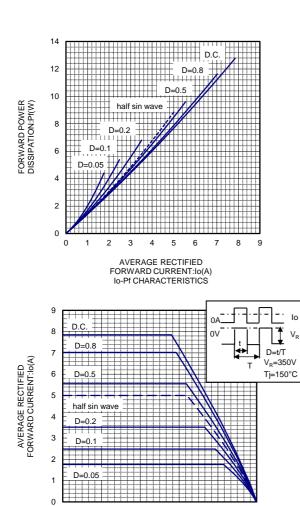
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		350	V
Reverse voltage	V_R	Direct voltage		350	V
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=95°C	5	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C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

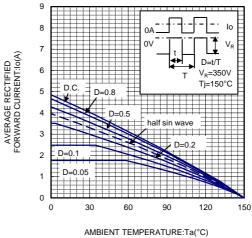
●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =5A	_	1.1	1.5	V
Reverse current	I _R	V _R =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









AMBIENT TEMPERATURE:Ta(°C DERATING CURVE(Io-Ta)

0

30

60

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

120

150

Notes

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