Super Fast Recovery Diode

RFN5BM2S Data Sheet

Serise

Standard Fast Recovery

Application

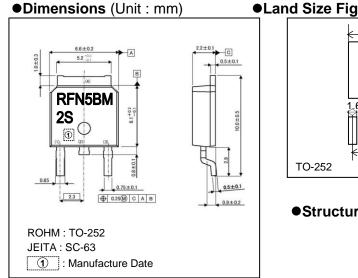
General rectification

Features

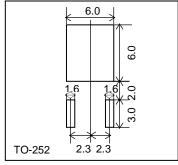
- 1) Low switching loss
- 2) Low forward voltage

Construction

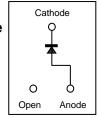
Silicon epitaxial planar type



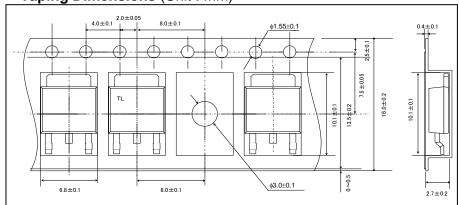
●Land Size Figure (Unit : mm)



Structure



● Taping Dimensions (Unit: mm)



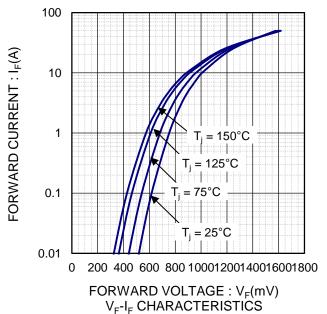
● Absolute Maximum Ratings (T_c= 25°C)

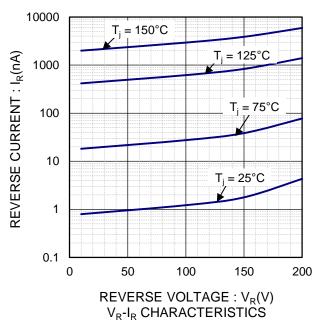
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	200	V
Reverse voltage	V_R	Direct voltage	200	V
Average rectified foward current	I _o	60Hz half sin wave , Resistive load T _c =114°C	5	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave ,Non-repetitive at T_j =25°C	40	Α
Operating junction temperature	T _j	-	150	°C
Storage temperature	T _{stg}	-	-55 to +150	°C

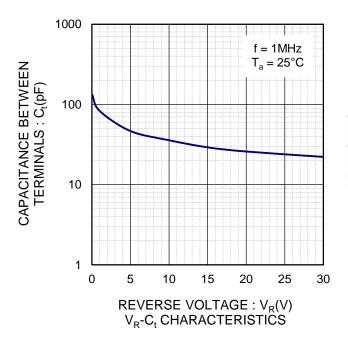
●Electrical Characteristics (T_i = 25°C)

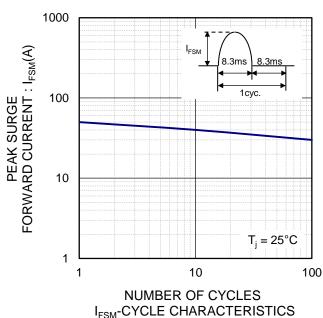
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =5A	-	0.9	0.98	V
Reverse current	I _R	V _R =200V	-	0.05	10	μА
Reverse recovery time	trr	I_F =0.5A, I_R =1A, Irr =0.25× I_R	-	13	25	ns
Thermal resistance	R _{th(j-c)}	Junction to case	-	-	6.0	°C/W

•Electrical Characteristic Curves

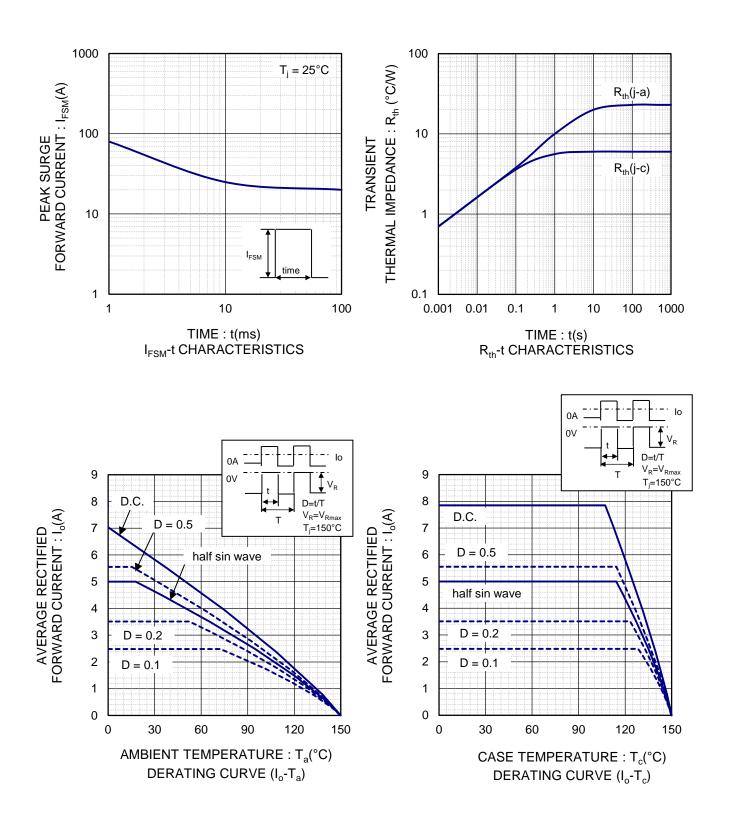




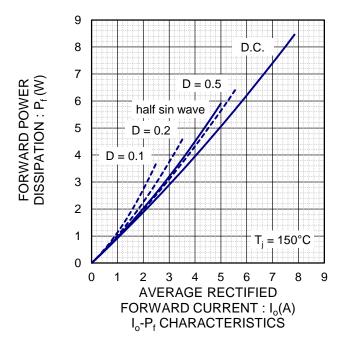




•Electrical Characteristic Curves



• Electrical Characteristic Curves



Notes

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