Super Fast Recovery Diode

RFN10BM3S Datasheet

Serise

Standard Fast Recovery

Application

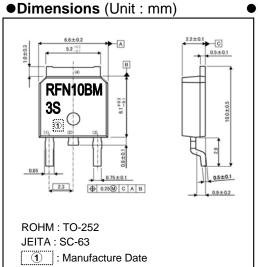
General rectification

Features

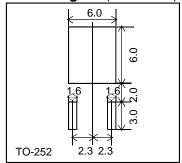
- 1) Low switching loss
- 2) High current overload capacity

● Construction

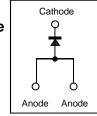
Silicon epitaxial planar type



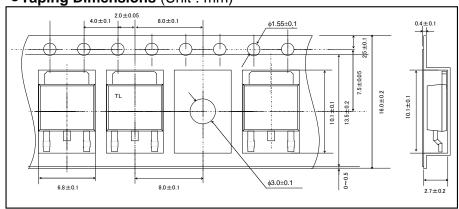
●Land Size Figure (Unit : mm)



Structure



● Taping Dimensions (Unit: mm)



● Absolute Maximum Ratings (T_c= 25°C)

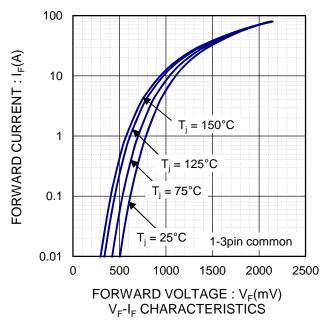
Parameter	Parameter Symbol Conditions			Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	Duty≦0.5		V
Reverse voltage	V_R	Direct voltage		350	V
Average rectified foward current	I _o	60Hz half sin wave , Resistive load	T _c =34°C	10	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave ,Non-repetitive at T_j =25°C $^{(*)}$		80	Α
Operating junction temperature	T _j	-		150	°C
Storage temperature	T _{stg}	-		-55 to +150	°C

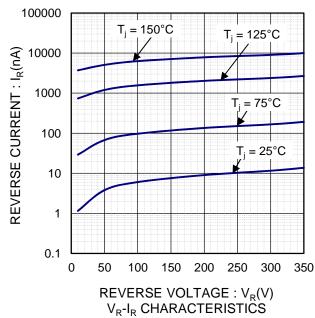
●Electrical Characteristics (T_i = 25°C)

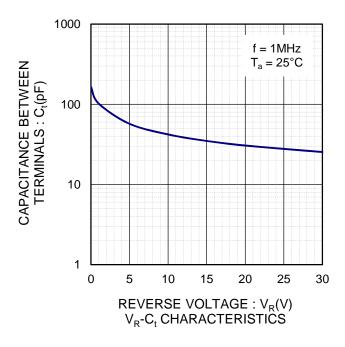
(;	*)1	l-3	pin	com	ımom	circ	uit
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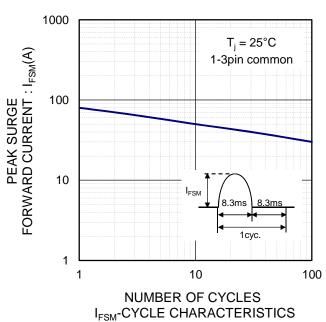
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =10A	1	1.25	1.5	V
Reverse current	I_R	$V_R=350V$	-	0.05	10	μΑ
Reverse recovery time	trr	I _F =0.5A, I _R =1A, Irr=0.25×I _R	-	22	30	ns
Thermal resistance	R _{th(j-c)}	Junction to case	•	-	6.0	°C/W

• Electrical characteristic curves

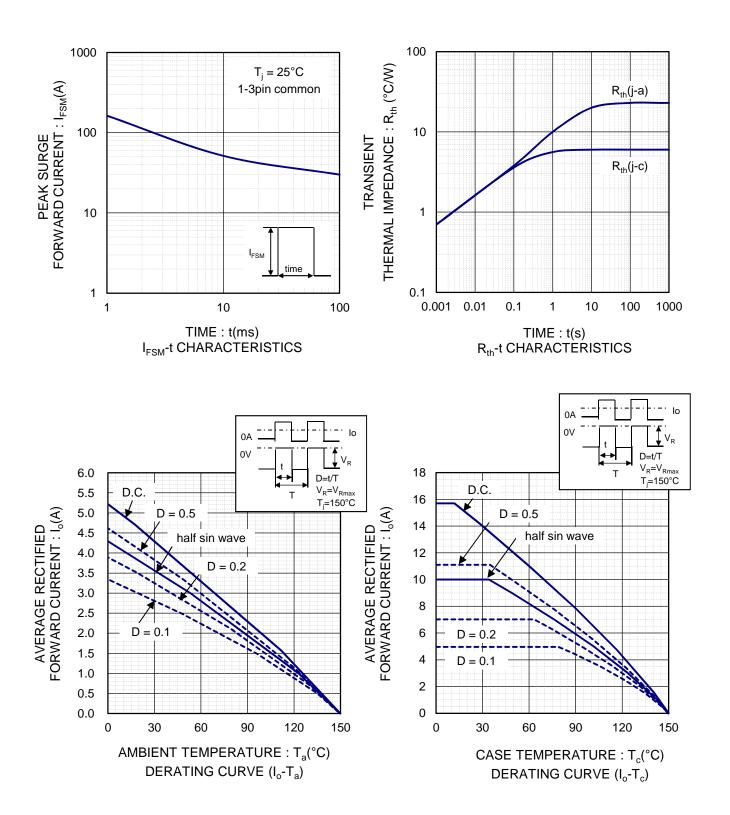




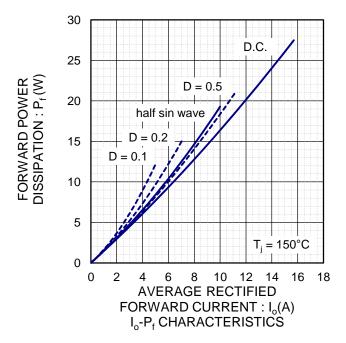




• Electrical characteristic curves



•Electrical characteristic curves



Notes

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