Super Fast Recovery Diode

RFN3BM6S Datasheet

Serise

Standard Fast Recovery

Application

General rectification

Features

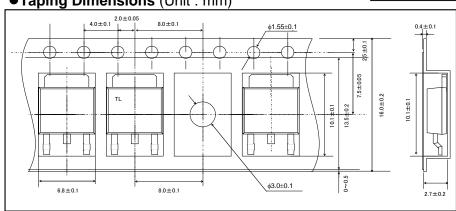
- 1) Low switching loss
- 2) Low forward voltage

Construction

Silicon epitaxial planar type

● **Dimensions** (Unit: mm) ●Land Size Figure (Unit : mm) **RFN3BM 6S** 1 TO-252 0.5±0.1 0.75±0.1 ⊕ 0.25M C A B 0.9±0.2 Structure ROHM: TO-252 JEITA: SC-63 1 : Manufacture Date

● 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		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	I _o	60Hz half sin wave , Resistive load	T _c =112°C	3	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave ,Non-repetitive at T _j =25°C		20	Α
Operating junction temperature	T _j	-		150	°C
Storage temperature	T _{stg}	-		-55 to +150	°C

●Electrical Characteristics (T_i = 25°C)

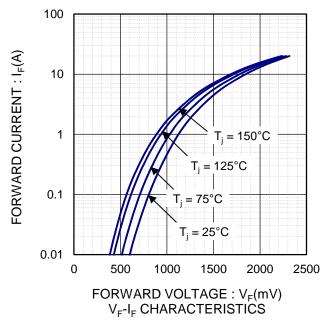
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =3A	-	1.35	1.55	V
Reverse current	I _R	V _R =600V	-	0.05	10	μА
Reverse recovery time	trr	I _F =0.5A, I _R =1A, Irr=0.25×I _R	-	18	30	ns
Thermal resistance	R _{th(j-c)}	Junction to case	-	-	6.0	°C/W

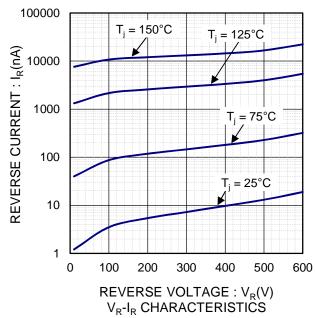
Cathode

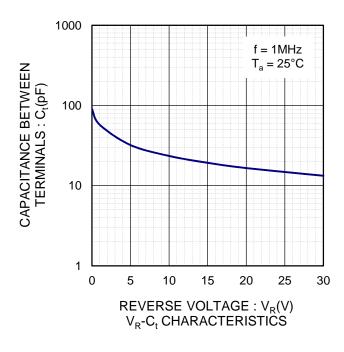
Anode

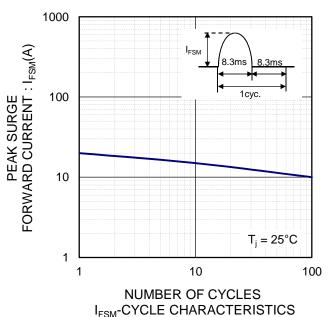
0 Open

•Electrical characteristic curves

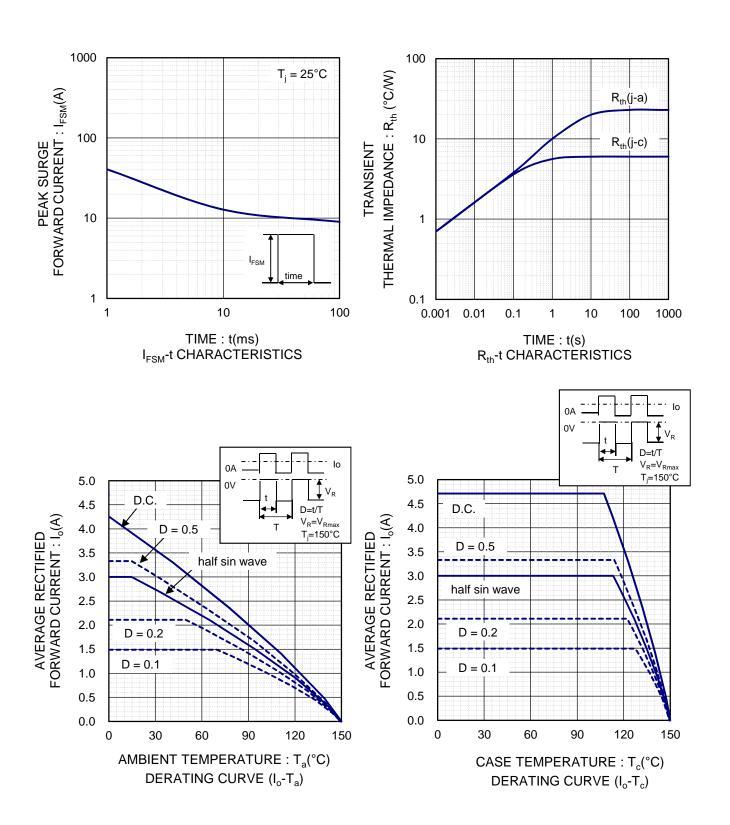




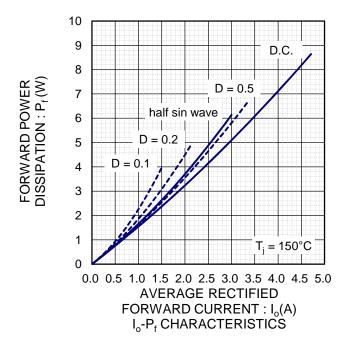




•Electrical characteristic curves



•Electrical characteristic curves



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