# Super Fast Recovery Diode

RF301BM2S Data Sheet

### Serise

Standard Fast Recovery

# Application

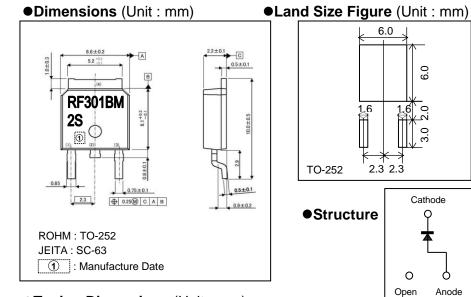
General rectification

### Features

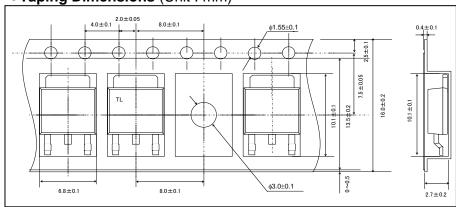
- 1) Low switching loss
- 2) Low forward voltage

### Construction

Silicon epitaxial planar type



● Taping Dimensions (Unit: mm)



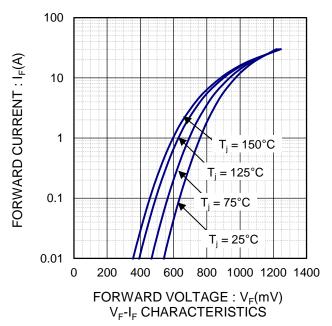
## ● Absolute Maximum Ratings (T<sub>a</sub>= 25°C)

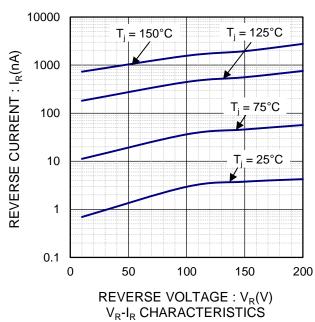
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	$V_{RM}$	Duty≦0.5	200	V
Reverse voltage	$V_R$	Direct voltage	200	V
Average rectified foward current	Io	60Hz half sin wave , Resistive load	3	Α
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave ,Non-repetitive at T <sub>j</sub> =25°C	40	Α
Operating junction temperature	T <sub>j</sub>	-	150	°C
Storage temperature	T <sub>stg</sub>	-	-55 to +150	°C

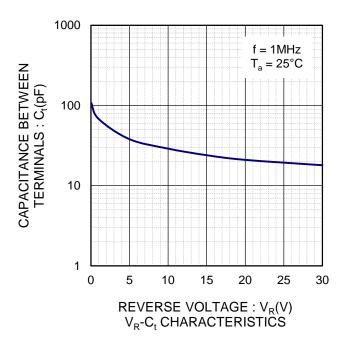
# ●Electrical Characteristics (T<sub>i</sub> = 25°C)

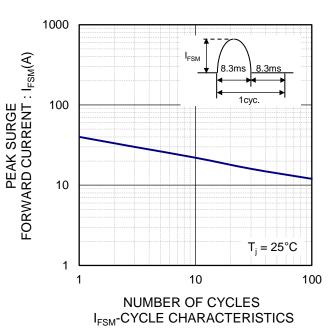
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Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit		
Forward voltage	$V_{F}$	I <sub>F</sub> =3A	-	0.85	0.93	V		
Reverse current	I <sub>R</sub>	V <sub>R</sub> =200V	-	0.05	10	μΑ		
Reverse recovery time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A, Irr=0.25×I <sub>R</sub>	-	13	25	ns		
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	-	1	6.0	°C/W		

## • Electrical Characteristic Curves

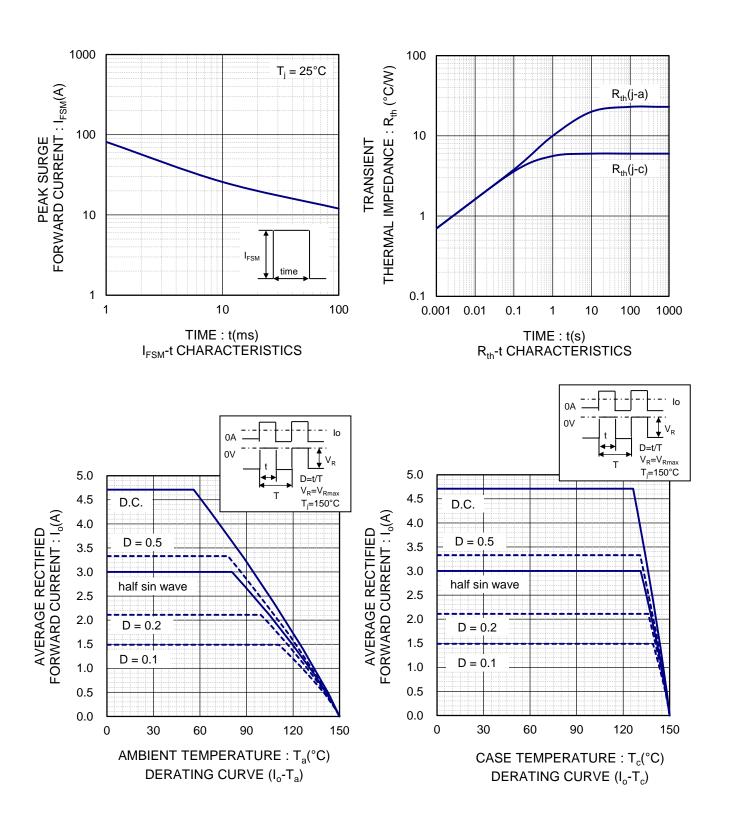




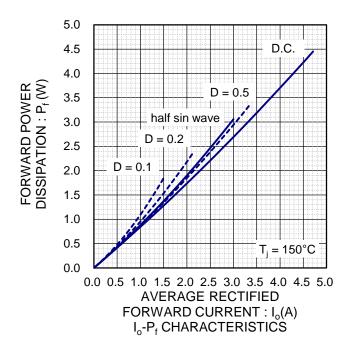




## • Electrical Characteristic Curves



## • Electrical Characteristic Curves



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