Super Fast Recovery Diode

RF305BM6SFH Datasheet

Series

Standard Fast Recovery

Application

General rectification

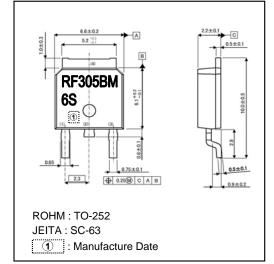
Features

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

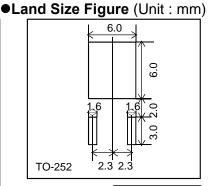
Construction

Silicon epitaxial planar type

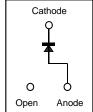
●Dimensions (Unit : mm)



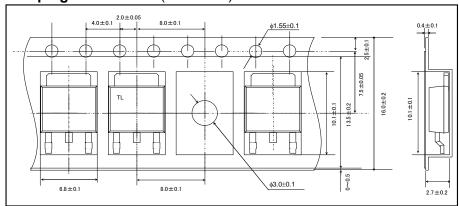
AEC-Q101 Qualified



●Structure



●Taping Dimensions (Unit: mm)



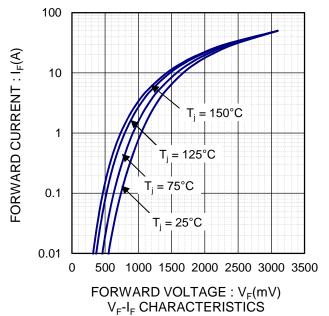
● Absolute Maximum Ratings (T_c= 25°C)

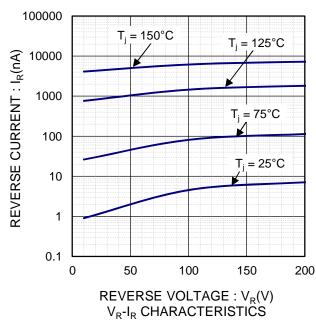
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified foward current	I _o	60Hz half sin wave , Resistive load	T _c =115°C	3	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave ,Non-repetitive at T _j =25°C		50	Α
Operating junction temperature	T _j	-		150	°C
Storage temperature	T _{stg}	-		-55 to +150	°C

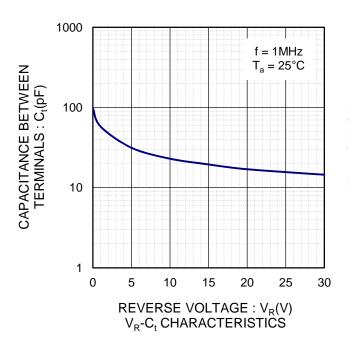
●Electrical Characteristics (T_i = 25°C)

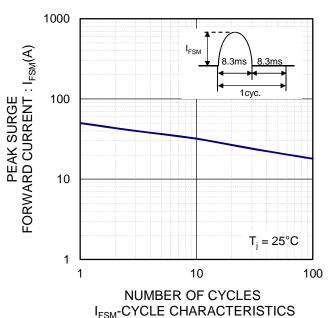
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =3A	-	1.3	1.7	V
Reverse current	I _R	V _R =600V	-	0.04	10	μА
Reverse recovery time	trr	I _F =0.5A, I _R =1A, Irr=0.25×I _R	-	20	30	ns
Thermal resistance	R _{th(j-c)}	Junction to case	-	-	6.0	°C/W

•Electrical Characteristic Curves

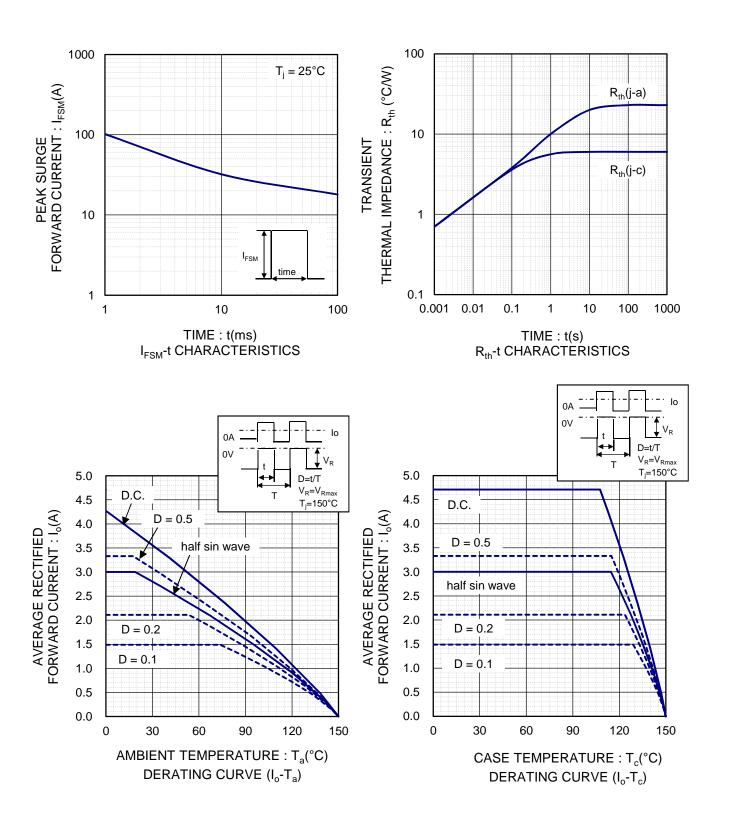




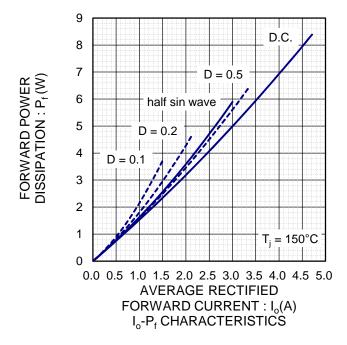




•Electrical Characteristic Curves



•Electrical Characteristic Curves



Notes

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