Super Fast Recovery Diode

RF05VYM1SFH Datasheet

Series

Standard Fast Recovery

Application

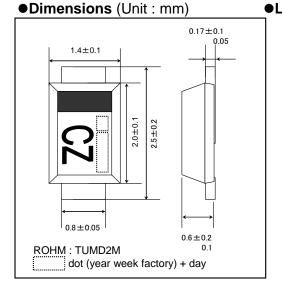
High frequency rectification

Features

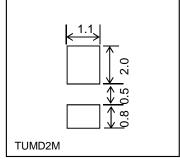
- 1) Small mold type (TUMD2M)
- 2) High speed switching
- 3) Low forward voltage

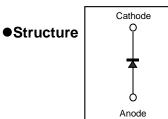
Construction

Silicon epitaxial planar type

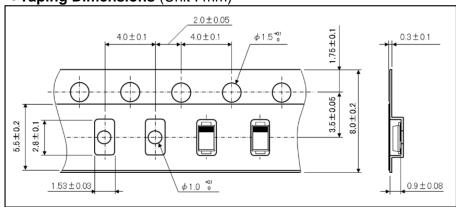


AEC-Q101 Qualified ●Land size figure (Unit : mm)





● Taping Dimensions (Unit: mm)



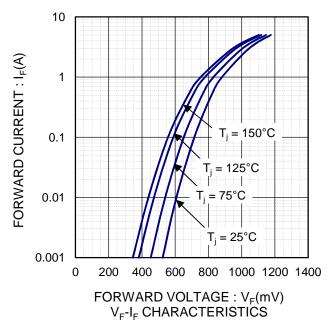
● Absolute maximum ratings (T_a= 25°C)

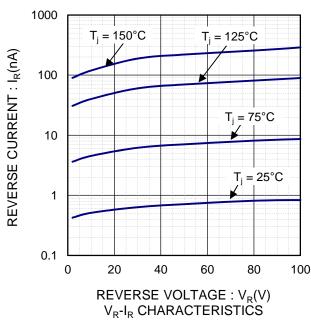
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	100	V
Reverse voltage	V_R	Direct voltage	100	V
Average current	I _o	On glass epoxy substrate 60Hz half sin wave, Resistive load	0.5	Α
Non-repetitive forward surge current	I _{FSM}	60Hz half sin wave ,Non-repetitive at T _j =25°C	6	Α
Operating junction temperature	T _j	•	150	°C
Storage temperature	T _{stg}	-	-55 to +150	°C

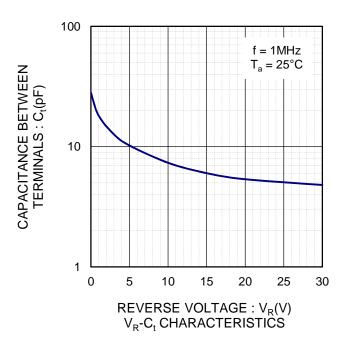
●Electrical characteristics (T_i = 25°C)

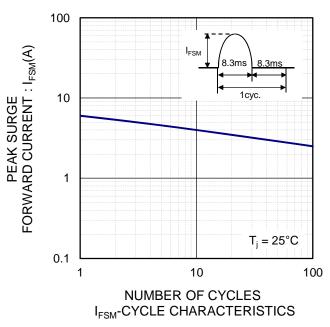
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =0.5A	-	0.82	0.98	V
Reverse current	I _R	V _R =100V	-	0.01	10	μА
Reverse recovery time	trr	I_F =0.5A, I_R =1A, Irr =0.25× I_R	-	12	25	ns
Thermal resistance	R _{th(j-l)}	Junction to lead	-	-	30	°C/W

•Electrical characteristic curves

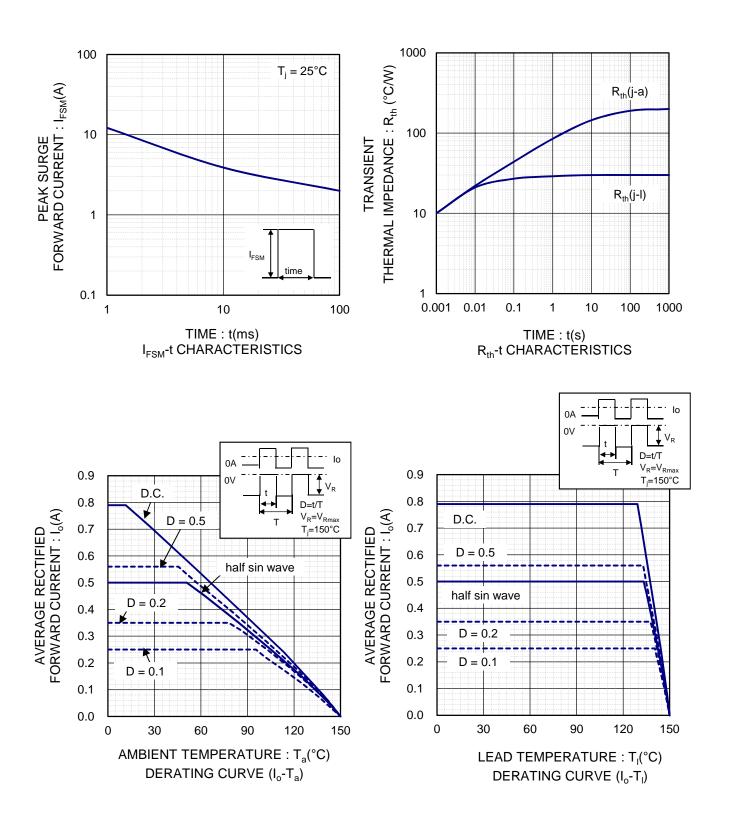




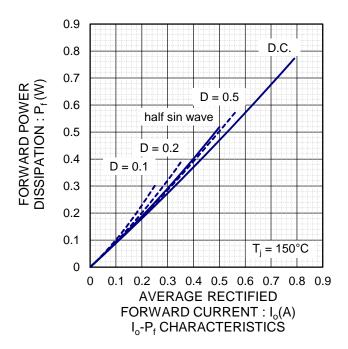




• Electrical characteristic curves



•Electrical characteristic curves



Notes

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