Fast recovery diode RF073M2S

Applications

High frequency rectification

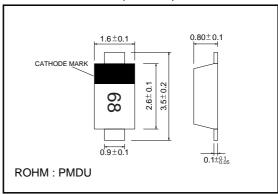
Features

- 1) Small power mold type (PMDS)
- 2) Ultra low V_F
- 3) Very fast recovery
- 4) Low switching loss

Construction

Silicon epitaxial planar

●External dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V _{RM}	200	V
Reverse voltage (DC)	VR	200	V
Forward voltage (DC)	lf *	1.0	А
Average rectified forward current	lo *	0.7	A
Forward peak surge current (60Hz · 1cyc.)	IFSM	15	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

^{*} Tc max=120°C Mounting on glass epoxi board

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Forward voltage	VF	_	0.830	0.890	V	I _F =0.7A	
Reverse current	lR	_	1.2	10	μΑ	V _R =200V	
Reverse recovery time	trr	_	9	20	ns	I=0.5A, I=1.0A, I=0.25×IR	

Note) ESD sensitive product handing required.



●Electrical characteristic curves (Ta=25°C)

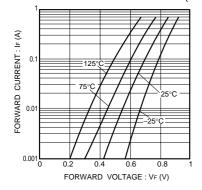


Fig.1 Forward temperature characteristics

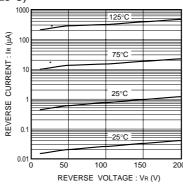


Fig.2 Reverse temperature characteristics

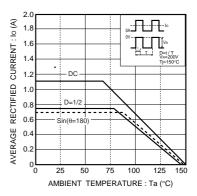


Fig.3 Derating curve

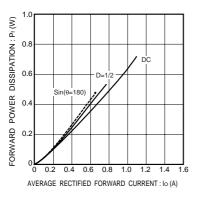


Fig. 4 Power dissipation characteristics

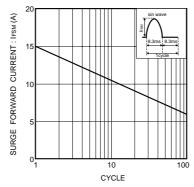


Fig.5 Forward peak surge current

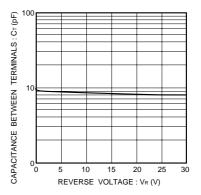


Fig. 6 Capacitance between terminals characteristics

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