# Super fast recovery diode RF081M2S

### Series

Standard Fast Recovery

# Applications

General rectification

### Features

- 1) Small power mold type. (PMDU)
- 2) High switching speed.
- 3) Low Reverse current

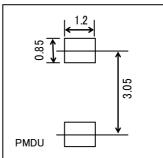
### Construction

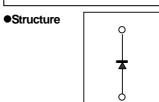
Silicon epitaxial planar

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●Dimensions (Unit:mm)

# ●Land size figure (Unit : mm)

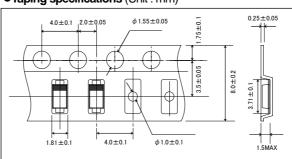




# ● Taping specifications (Unit: mm)

0.9±0.1

JEDEC :SOD-123
Manufacture Date



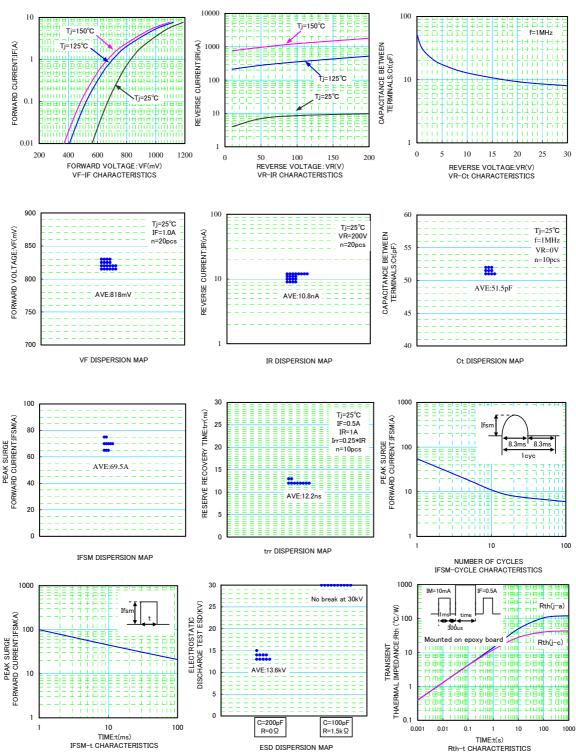
### ● Absolute maximum ratings (Ta=25°C)

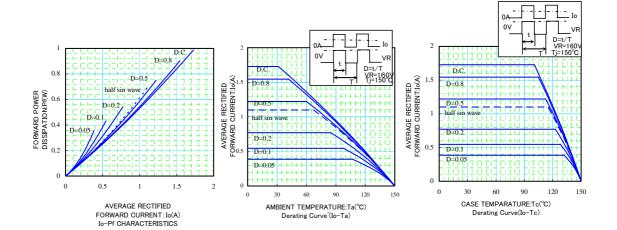
Parameter Symbo		Limits	Unit	Conditions	
Repetitive peak Reverse voltage	$V_{RM}$	200	V		
Reverse voltage	$V_R$	200	V	Direct voltage	
Average rectified forward current	lo	0.8 1.0	Α	Glass epoxy substrate mounted 50×50mm Glass epoxy substrate mounted	
Forward current surge peak	I <sub>FSM</sub>	15	Α	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C	
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	_	0.83	0.95	V	I <sub>F</sub> =0.8A
		-	0.86	0.98		I <sub>F</sub> =1.0A
Reverse current	I <sub>R</sub>	_	0.01	10	μA	V <sub>R</sub> =200V
Reverse recovery time	trr	_	12	25	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,Irr=0.25*IR
Thermal Resistance	Rth(j-l)	-	_	20	°C/W	junction to lead

# Electrical characteristic curves





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