

RF081M2S

Diodes

Super fast recovery diode

RF081M2S

●Series

Standard Fast Recovery

●Applications

General rectification

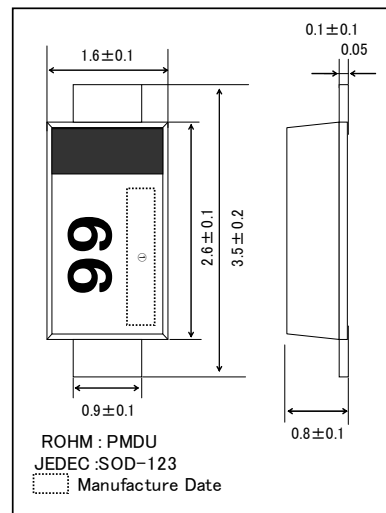
●Features

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

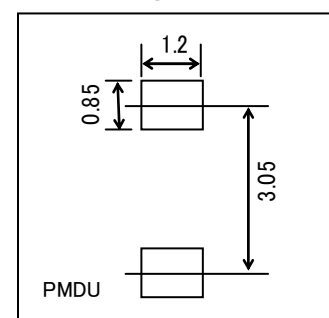
●Construction

Silicon epitaxial planar

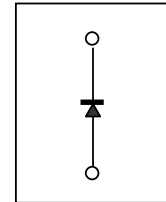
●Dimensions (Unit : mm)



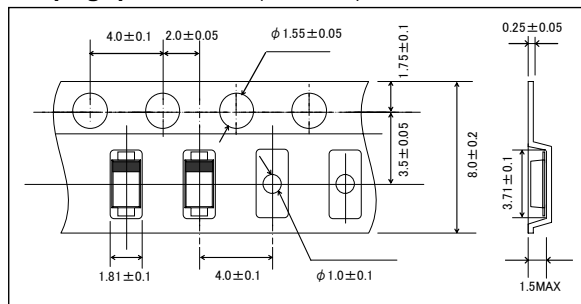
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	Conditions
Repetitive peak Reverse voltage	V_{RM}	200	V	
Reverse voltage	V_R	200	V	Direct voltage
Average rectified forward current	I_o	0.8 1.0	A	Glass epoxy substrate mounted 50×50mm Glass epoxy substrate mounted
Forward current surge peak	I_{FSM}	15	A	60Hz half sin wave, Non-repetitive one cycle peak value, $T_J=25^{\circ}C$
Junction temperature	T_J	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

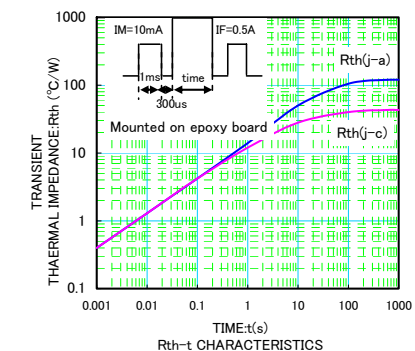
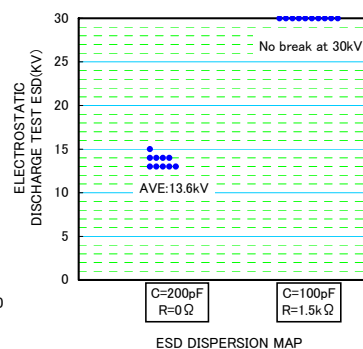
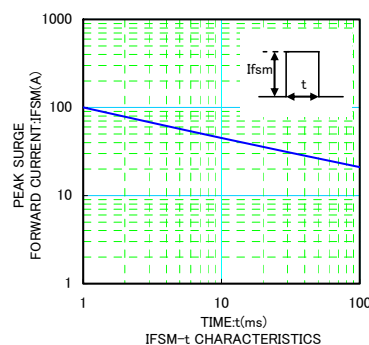
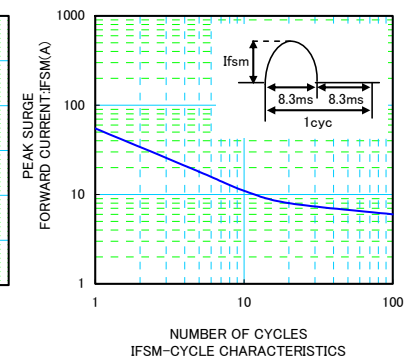
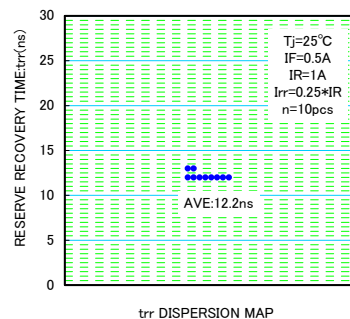
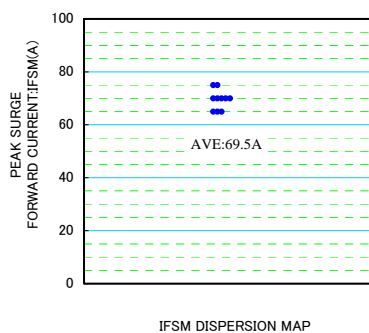
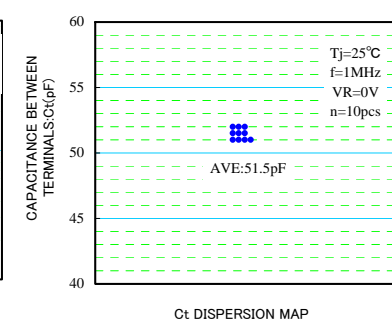
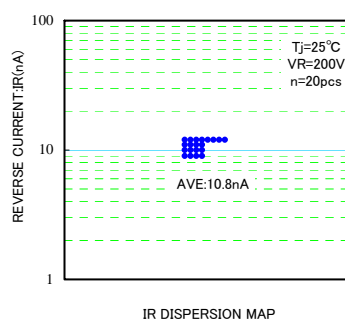
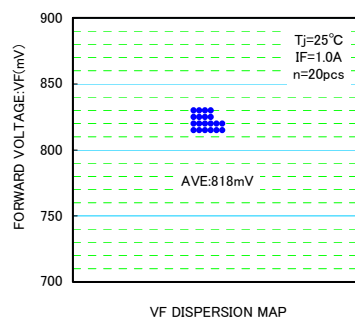
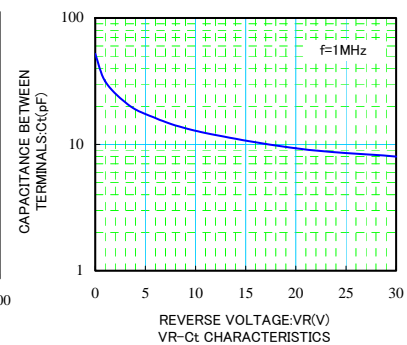
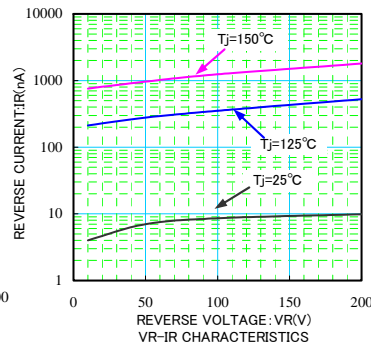
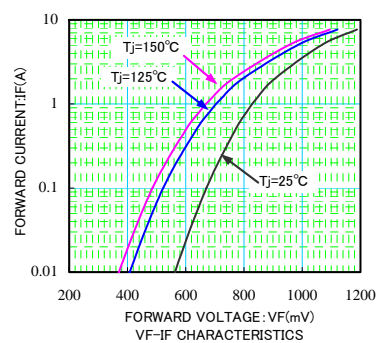
●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	—	0.83 0.86	0.95 0.98	V	$I_F=0.8A$ $I_F=1.0A$
Reverse current	I_R	—	0.01	10	μA	$V_R=200V$
Reverse recovery time	t_{rr}	—	12	25	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25 \cdot I_R$
Thermal Resistance	$R_{th(j-l)}$	—	—	20	°C/W	junction to lead

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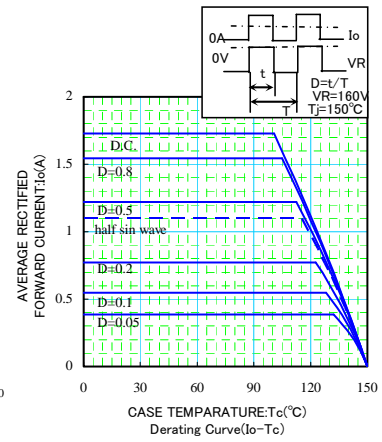
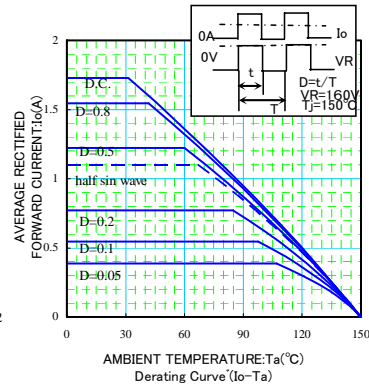
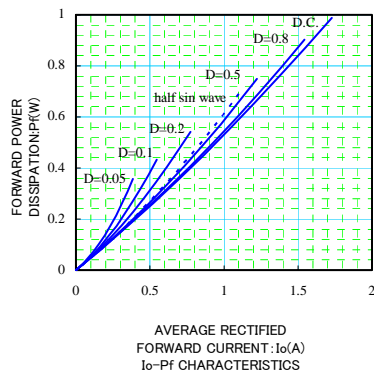
Diodes

●Electrical characteristic curves



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Diodes



Appendix

Notes

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