Super fast recovery diode **RF081M2S**

Series

Standard Fast Recovery

Applications

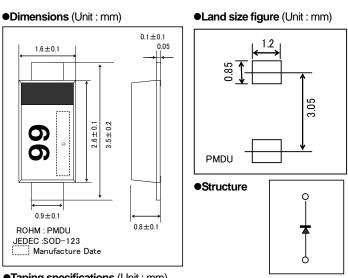
General rectification

Features

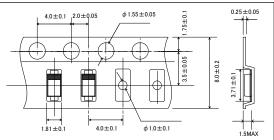
- 1) Small power mold type. (PMDU)
- 2) High switching speed.
- 3) Low Reverse current

Construction

Silicon epitaxial planar



•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 | lo | 0.8 1.0 | А | Glass epoxy substrate mounted 50x50mm Glass epoxy substrate mounted | |
| Forward current surge peak | I _{FSM} | 15 | А | 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 | | |

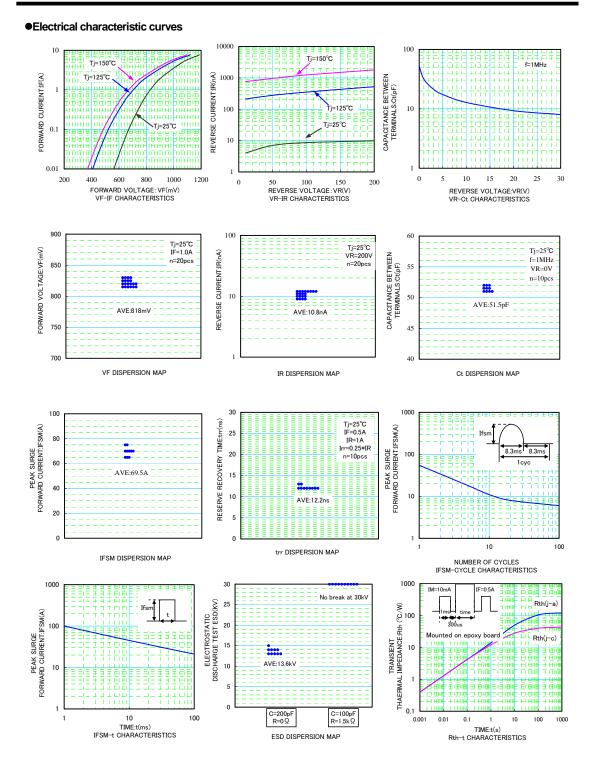
•Electrical characteristic (Ta=25°C)

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

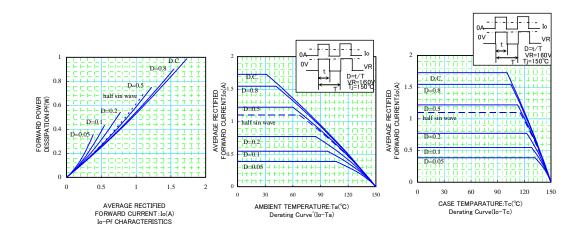


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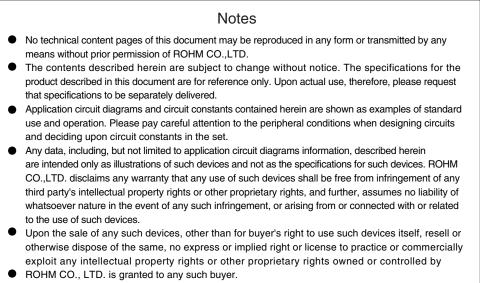
Diodes



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• Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

It is our top priority to supply products with the utmost quality and reliability. However, there is always a chance of failure due to unexpected factors. Therefore, please take into account the derating characteristics and allow for sufficient safety features, such as extra margin, anti-flammability, and fail-safe measures when designing in order to prevent possible accidents that may result in bodily harm or fire caused by component failure. ROHM cannot be held responsible for any damages arising from the use of the products under conditions out of the range of the specifications or due to non-compliance with the NOTES specified in this catalog.

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Appendix1-Rev2.0