Fast recovery diode RF073M2S

Applications

High frequency rectification

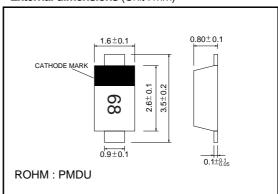
Features

- 1) Small power mold type (PMDS)
- 2) Ultra low VF
- 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) | le * | 1.0 | Α |
| Average rectified forward current | lo * | 0.7 | Α |
| 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 | IR | _ | 1.2 | 10 | ∞A | V _R =200V |
| Reverse recovery time | trr | - | 9 | 20 | ns | IF=0.5A, IR=1.0A, Irr=0.25×IR |

Note) ESD sensitive product handing required.



●Electrical characteristic curves (Ta=25°C)

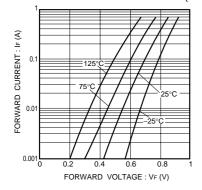


Fig.1 Forward temperature characteristics

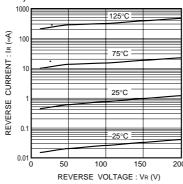


Fig.2 Reverse temperature characteristics

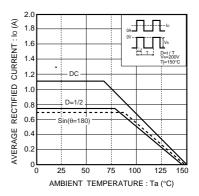


Fig.3 Derating curve

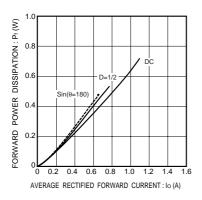


Fig. 4 Power dissipation characteristics

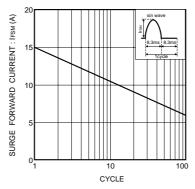


Fig.5 Forward peak surge current

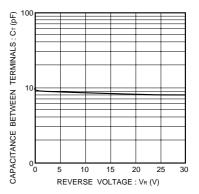


Fig. 6 Capacitance between terminals characteristics

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