Shottky barrier diode

RB420D

Application

Low current rectification

Features

- 1) Small mold type. (SMD3)
- 2) Low IR
- 3) High reliability.

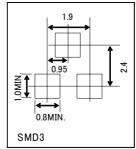
●Structure

Silicon epitaxial planar

2.9±0.2 0.4±0.1 Each lead has same dimension 0.15±0.1 0.15±0.01 0.15±0.01 0.15±0.01 0.15±0.01 0.15±0.01 0.15±0.01 0.15±0.01

●Dimensions (Unit: mm)

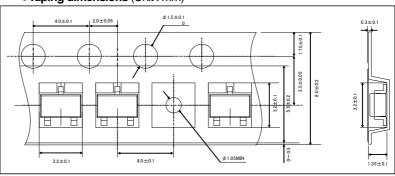
●Lead size figure (Unit: mm)



Structure



●Taping dimensions (Unit:mm)



ROHM: SMD3 JEDEC:S0T-346 JEITA: SC-59 week code

● Absolute maximum ratings (Ta=25°C)

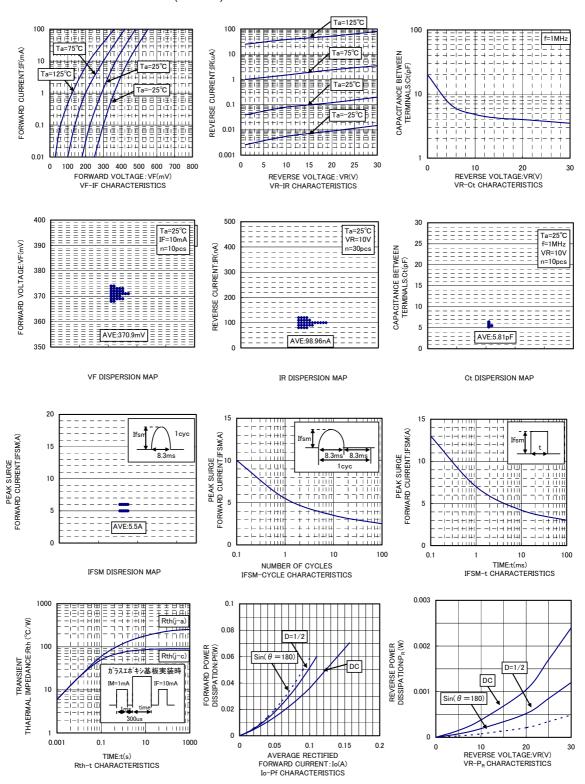
| Parameter | Symbol | Limits | Unit | |
|---|------------------|-------------|------|--|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V | |
| Reverse voltage (DC) | V_R | 40 | V | |
| Average rectified forward current (*1) | lo | 100 | mA | |
| Forward current surge peak(60Hz•1cyc)(*1) | I _{FSM} | 1 | Α | |
| Junction temperature | Tj | 125 | °C | |
| Storage temperature | Tstg | -40 to +125 | °C | |

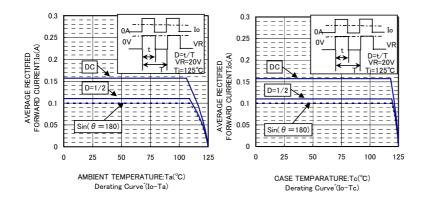
^(*1)Rating of per diode

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|-------------------------------|------------------|------|------|------|------|------------------------------|
| Forward voltage | V _F 1 | - | - | 0.45 | V | I _F =10mA |
| Reverse current | I _R 1 | - | - | 1 | μA | V _R =10V |
| Capacitance between terminals | Ct1 | - | 6 | - | pF | V _R =10V , f=1MHz |

●Electrical characteristic curves (Ta=25°C)





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