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Diodes

Schottky barrier diode

RB050LA-40

●Applications

General rectification

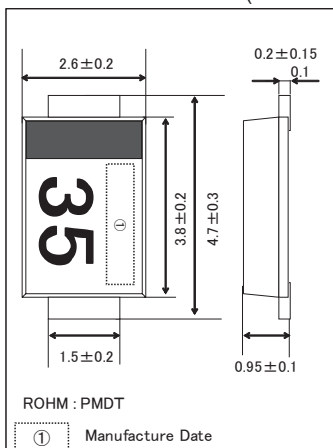
●Features

- 1) Small power mold type (PMDT)
- 2) Low I_R
- 3) High reliability

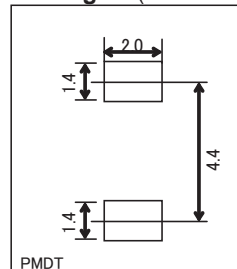
●Structure

Silicon epitaxial planer

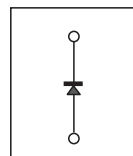
●External dimensions (Unit : mm)



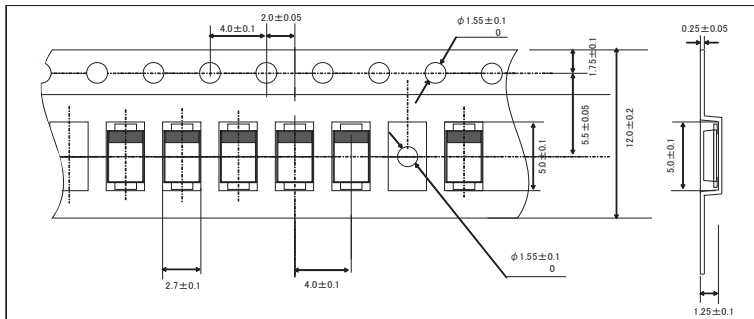
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●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 | I _o | 3 | A |
| Forward current surge peak (60Hz · 1cyc) | I _{FSM} | 70 | A |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

(*1) Mounted on epoxy board. 180°Half sine wave

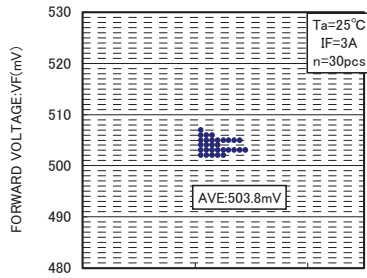
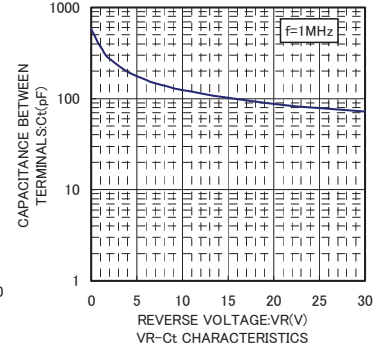
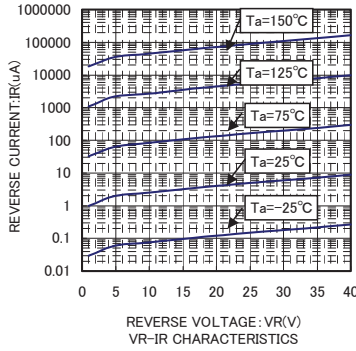
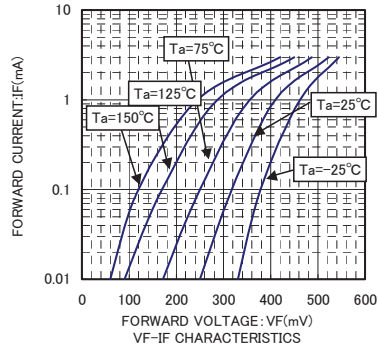
●Electrical characteristic (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|-----------------|------|------|------|------|----------------------|
| Forward voltage | V _{F1} | - | - | 0.50 | V | I _F =1.5A |
| | V _{F2} | - | - | 0.55 | V | I _F =3.0A |
| Reverse current | I _R | - | - | 0.1 | mA | V _R =40V |

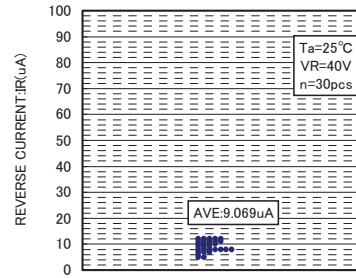
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Diodes

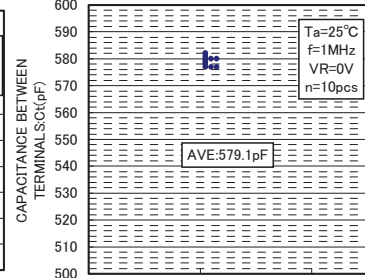
●Electrical characteristic curves



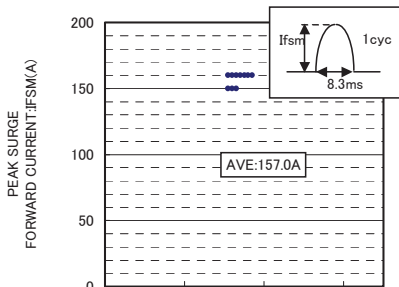
VF DISPERSION MAP



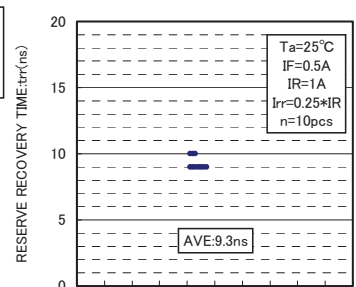
IR DISPERSION MAP



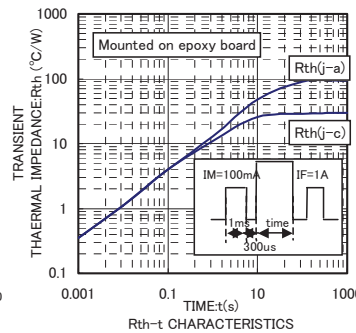
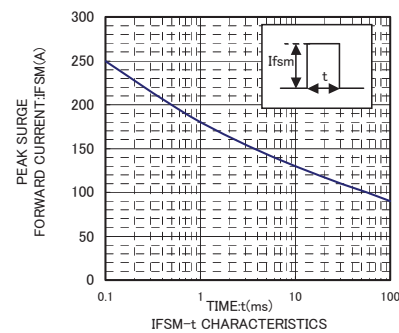
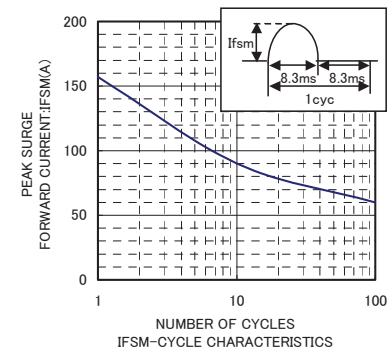
Ct DISPERSION MAP



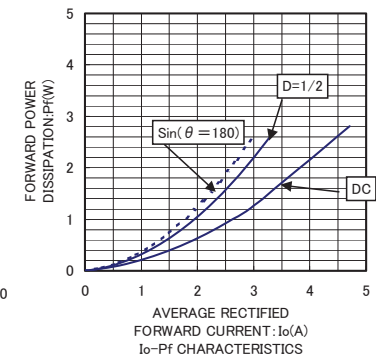
IFSM DISRESION MAP



trr DISPERSION MAP

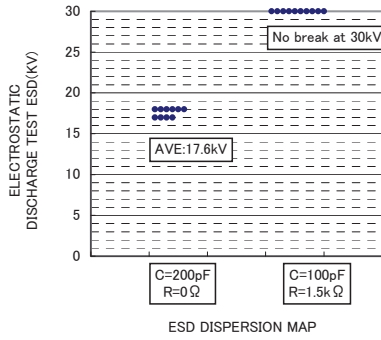
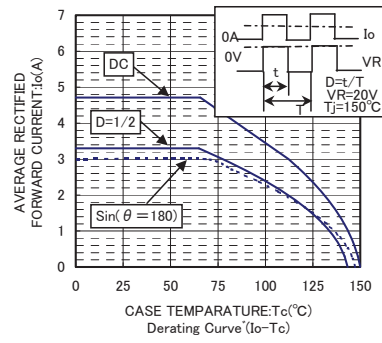
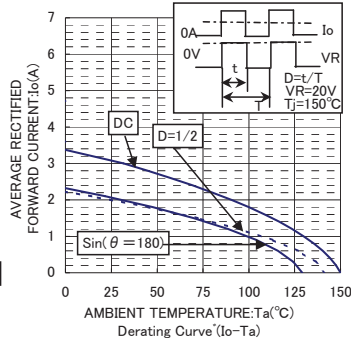
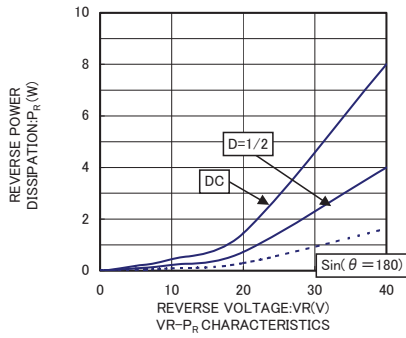


Rth-t CHARACTERISTICS



RB050LA-40

Diodes



Appendix

Notes

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