

Switching diode

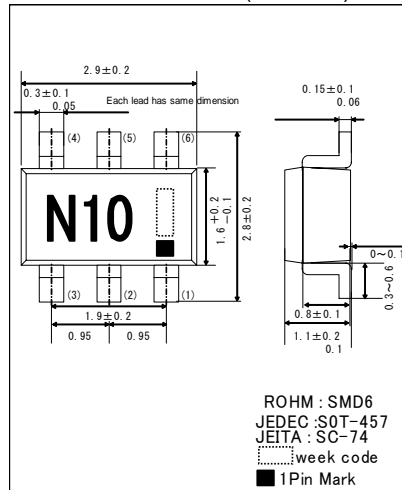
IMN10

●Application
Ultra high speed switching

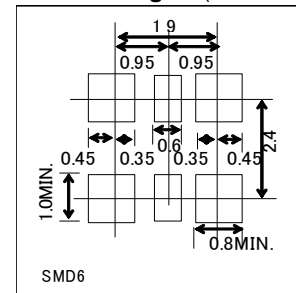
●Features
1) Small mold type. (SMD6)
2) High reliability

●Construction
Silicon epitaxial planar

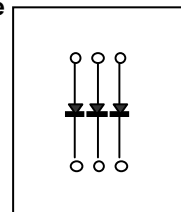
●External dimensions (Unit : mm)



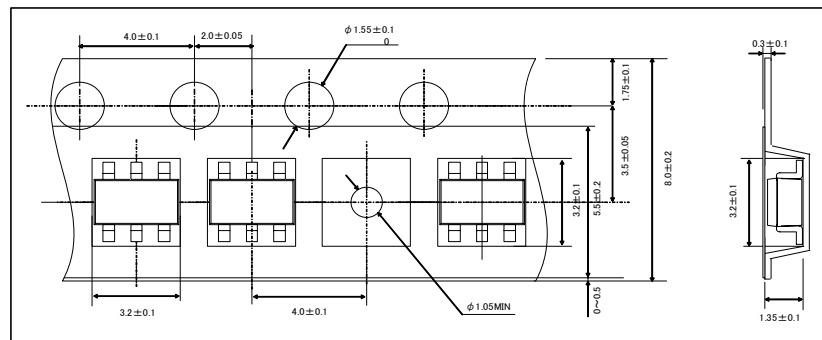
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--------------------------------------------|-------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 80 | V |
| Reverse voltage (DC) | V_R | 80 | V |
| Forward current (Single) | I_{FM} | 300 | mA |
| Forward current (Double) | I_{FM} | 450 | mA |
| Average rectified forward current (single) | I_o | 100 | mA |
| Surge current (t=1us) | I_{surge} | 4 | A |
| Power dissipation (TOTAL)(*1) | P_d | 300 | mW |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

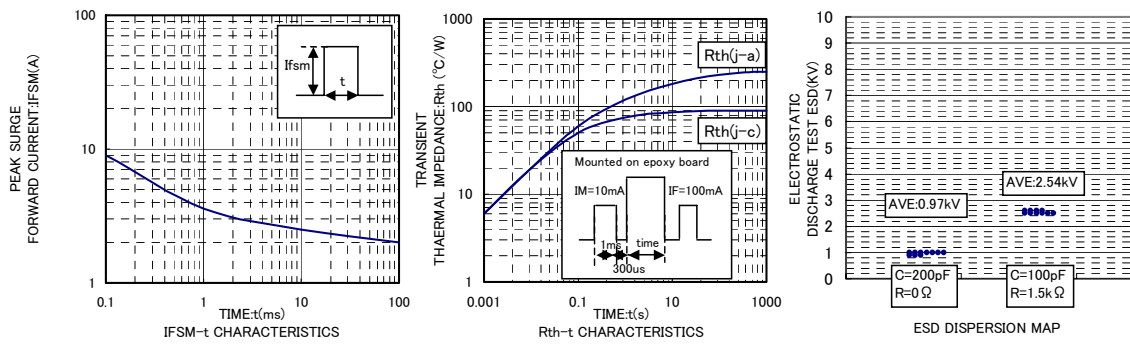
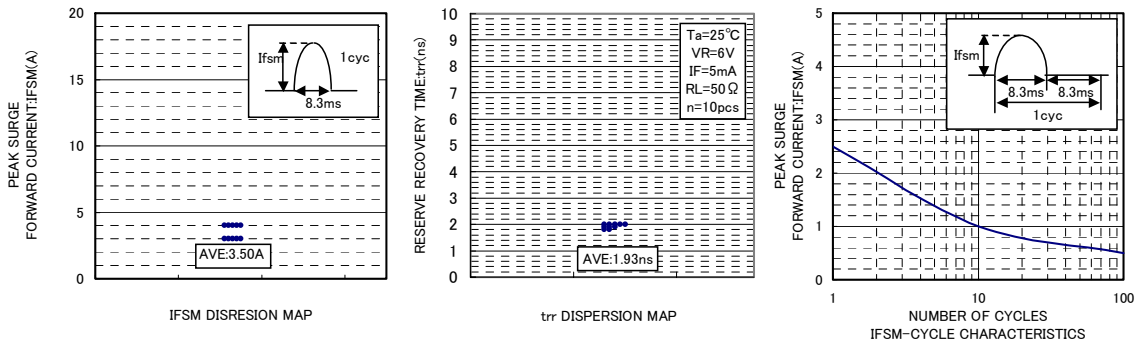
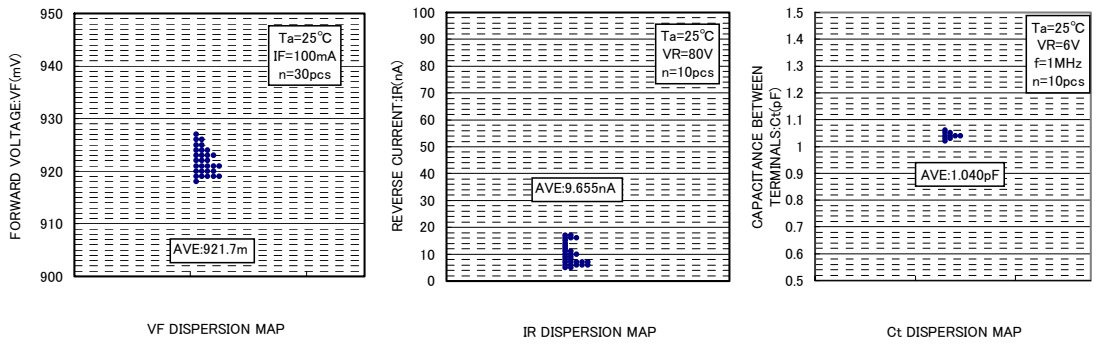
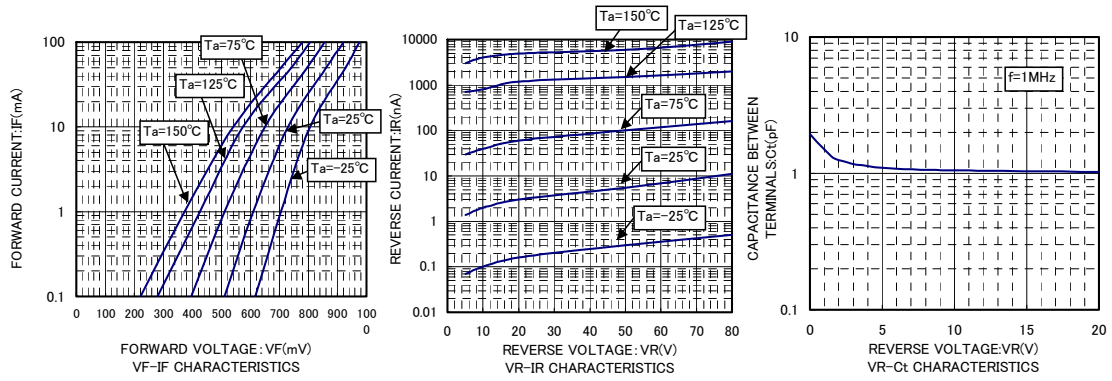
(*1) Not exceed 200mW per element.

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------|------|------|------|------|---------------------------------|
| Forward voltage | V_F | - | - | 1.2 | V | $I_F=100mA$ |
| Reverse current | I_R | - | - | 0.1 | μA | $V_R=70V$ |
| Capacitance between terminals | C_t | - | - | 3.5 | pF | $V_R=6V, f=1MHz$ |
| Reverse recovery time | t_{rr} | - | - | 4 | ns | $V_R=6V, I_F=5mA, R_L=50\Omega$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



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