IMN10 Datasheet

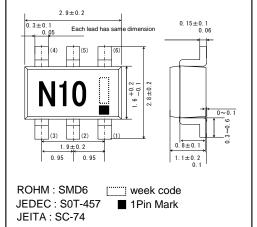
Application

Ultra high speed switching

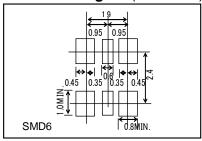
Features

- 1) Small mold type. (SMD6)
- 2) High reliability.

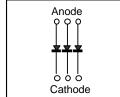
●Dimensions (Unit : mm)



●Land size figure (Unit : mm)



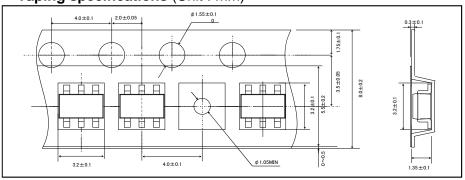
●Structure



Construction

Silicon epitaxial planar

● Taping specifications (Unit: mm)



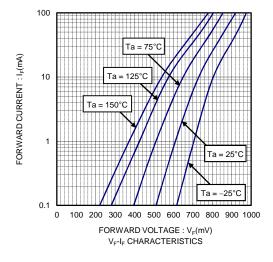
● Absolute maximum ratings (Ta= 25°C)

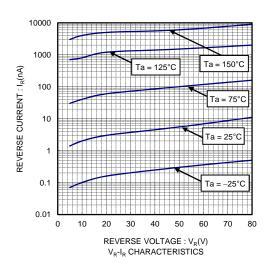
| Parameter | Symbol | Limits | Unit |
|--|--------------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 80 | V |
| Reverse voltage (DC) | V_R | 80 | V |
| Forward current (Single) | I _{FM} | 300 | mA |
| Forward current (Double) | I _{FM} | 450 | mA |
| Average rectified forward current (single) | lo | 100 | mA |
| Surge current (t=1µs) | I _{surge} | 4 | Α |
| Power dissipation (TOTAL)(*1) | Pd | 300 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | -55 to +150 | °C |

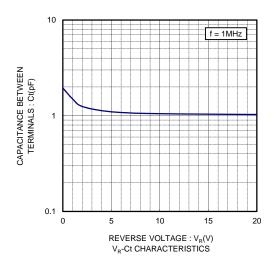
^(*1) Not exceed 200mW per element.

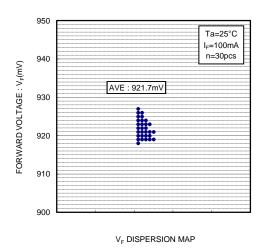
●Electrical characteristics (Ta = 25°C)

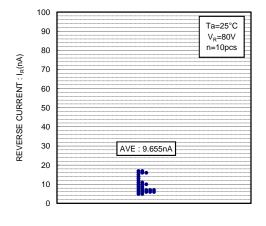
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|-------------------------------|----------------|------|------|------|------|--------------------------------------|
| Forward voltage | V_{F} | - | - | 1.2 | V | I _F =100mA |
| Reverse current | I _R | - | - | 0.1 | μΑ | V _R =70V |
| Capacitance between terminals | Ct | - | - | 3.5 | pF | V _R =6V, f=1MHz |
| Reverse recovery time | trr | - | - | 4 | ns | $V_R=6V$, $I_F=5mA$, $RL=50\Omega$ |

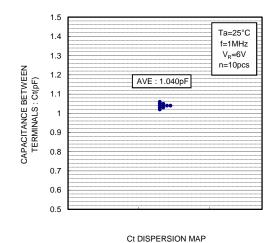




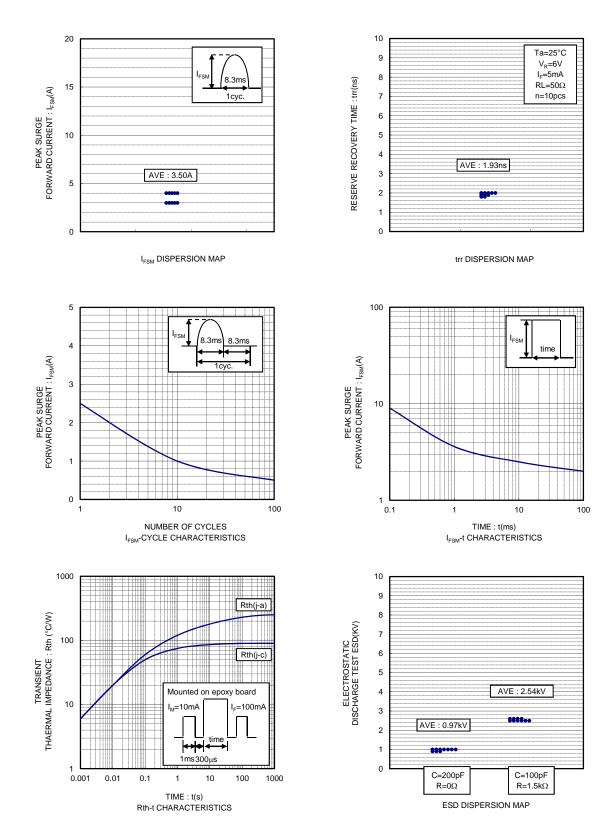








I_R DISPERSION MAP



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