Switching Diode

UMR12N Data Sheet

Applications

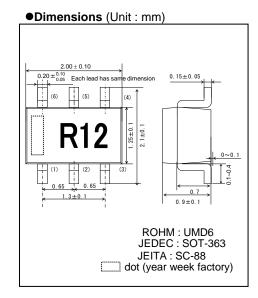
Ultra high speed switching

Features

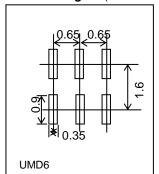
- 1) Small mold type. (UMD6)
- 2) High reliability.

●Construction

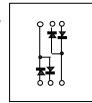
Silicon epitaxial planar



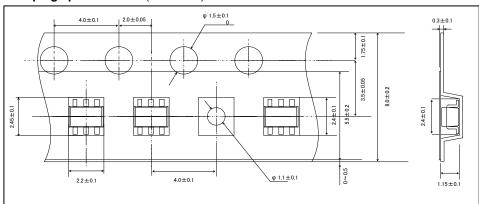
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

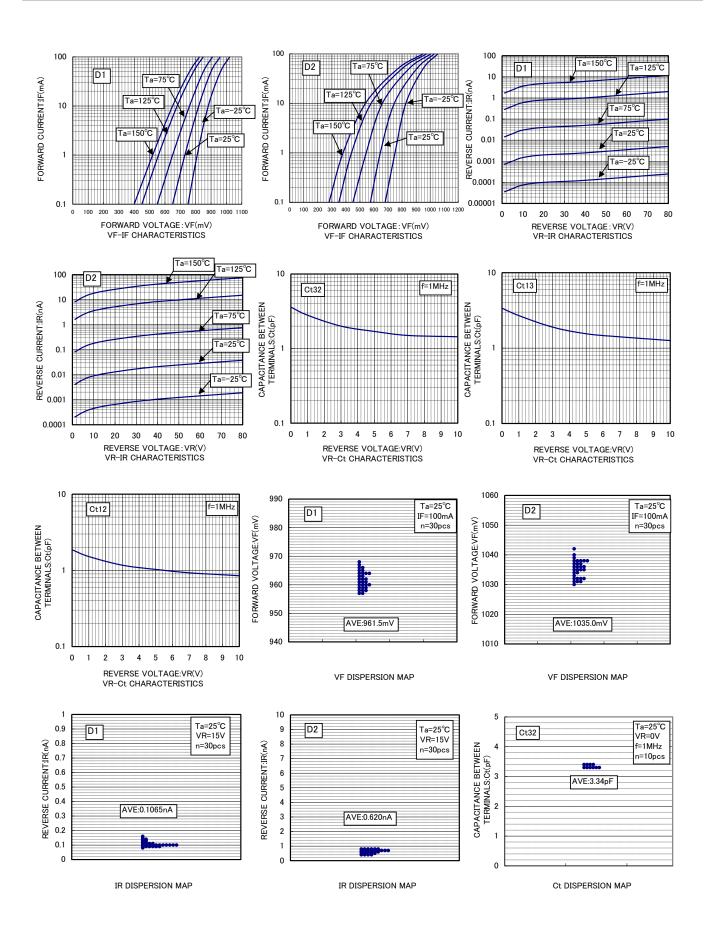


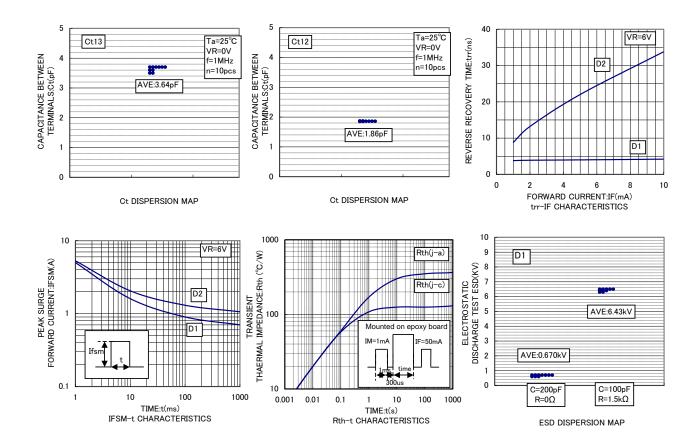
● Absolute maximum ratings (Ta=25°C)

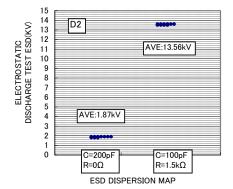
| Parameter | Symbol | Limits | Unit |
|--|--------------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 80 | V |
| Reverse voltage (DC) | V_R | 80 | V |
| Forward current (Single) | I _{FM} | 200 | mA |
| Average rectified forward current (Single) | lo | 100 | mA |
| Surge current (t=1us) | I _{surge} | 4 | Α |
| Power dissipation | Pd | 200 | mW |
| Junction temperature | Tj | 150 | °C |
| Storage temperature | Tstg | −55 to +150 | °C |

●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 | μA | V _R =80V |
| Capacitance between terminals | Ct | - | - | 3.5 | pF | V _R =6V , f=1MHz |







Notes

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