## Switching diode

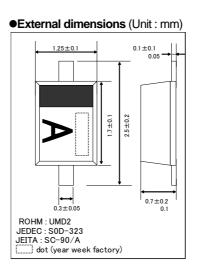
### 1SS355

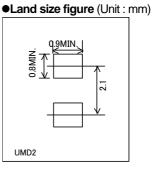
•Applications High speed switching

Features1) Ultra small mold type.(UMD2)2) High reliability.

#### Construction

Silicon epitaxial planar



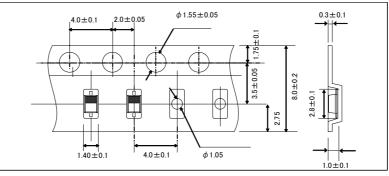


Structure

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#### •Taping specification (Unit : mm)



#### •Absolute maximum ratings (Ta=25°C)

| Parameter                         | Symbol             | Limits      | Unit |
|-----------------------------------|--------------------|-------------|------|
| Reverse voltage (repetitive peak) | V <sub>RM</sub>    | 90          | V    |
| Reverse voltage (DC)              | V <sub>R</sub>     | 80          | V    |
| Forward current                   | I <sub>FM</sub>    | 225         | mA   |
| Average rectified forward current | lo                 | 100         | mA   |
| Surge current (t=1s)              | I <sub>surge</sub> | 500         | mA   |
| Junction temperature              | Tj                 | 150         | °C   |
| Storage temperature               | Tstg               | -55 to +150 | °C   |

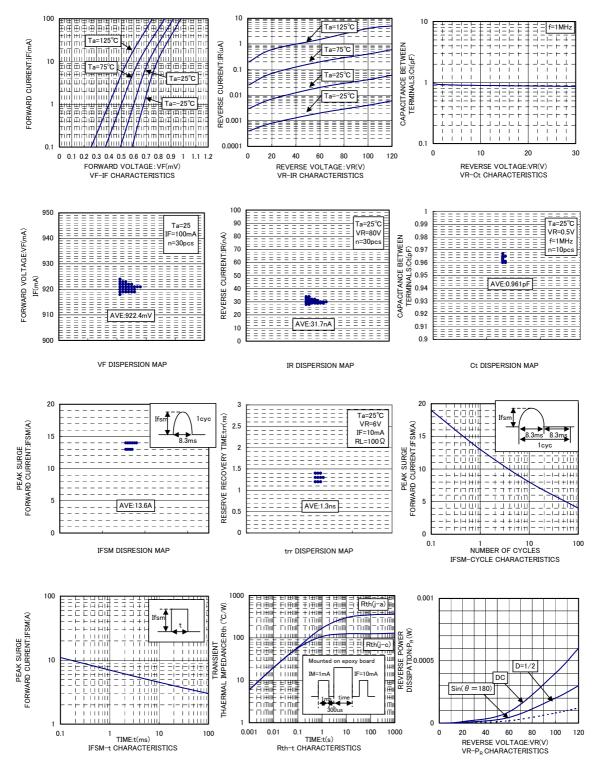
#### ●Electrical characteristics (Ta=25°C)

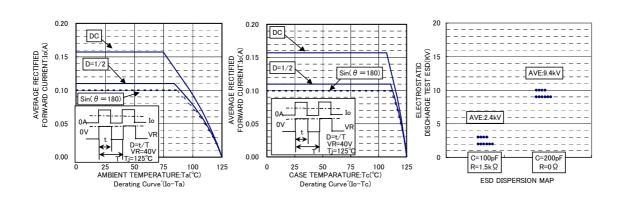
| Parameter                     | Symbol         | Min. | Тур. | Max. | Unit | Conditions                            |
|-------------------------------|----------------|------|------|------|------|---------------------------------------|
| Forward voltage               | V <sub>F</sub> | -    | -    | 1.2  | V    | I <sub>F</sub> =100mA                 |
| Reverse current               | I <sub>R</sub> | -    | -    | 0.1  | μA   | V <sub>R</sub> =80V                   |
| Capacitance between terminals | Ct             | -    | -    | 3    | pF   | V <sub>R</sub> =0.5V , f=1MHz         |
| Reverse recovery time         | trr            | -    | -    | 4    | ns   | $V_R$ =6V , IF=10mA , RL=100 $\Omega$ |



#### Diodes







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