

1. Scope

The present specifications shall apply to an EU01.

2. Outline

| | | |
|--------------|------------------------------------|----------------------------------|
| Type | Silicon Diode (Mesa Type) | |
| Structure | Resin Molded | Flammability:UL94-V0(Equivalent) |
| Applications | High Frequency Rectification, etc. | |

3. Absolute maximum ratings

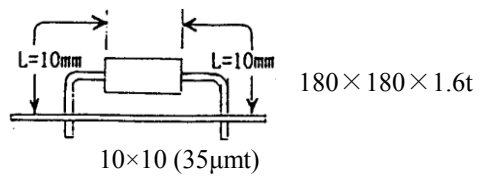
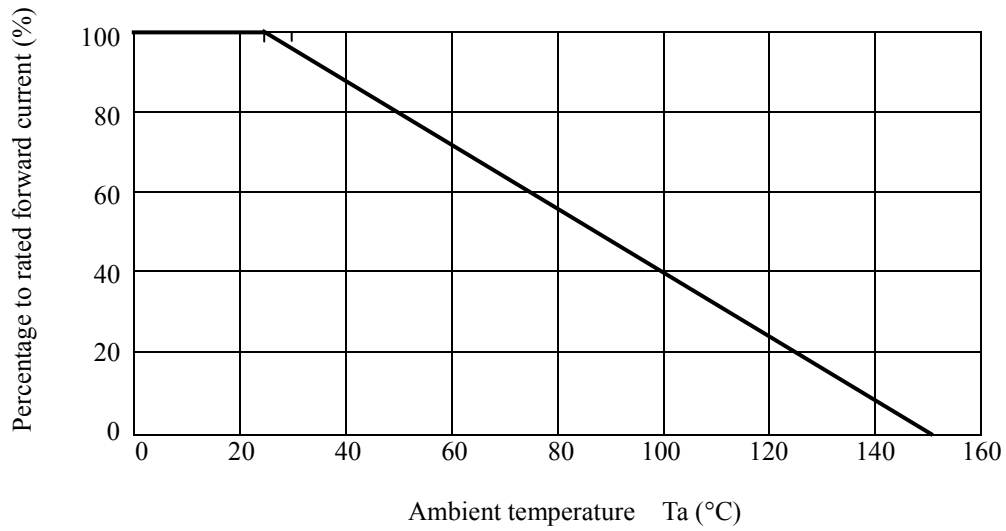
| No. | Item | Symbol | Unit | Rating | Conditions |
|-----|--------------------------------|-------------|------|----------|------------|
| 1 | Transient Peak Reverse Voltage | V_{RSM} | V | 450 | |
| 2 | Peak Reverse Voltage | V_{RM} | V | 400 | |
| 3 | Average Forward Current | $I_{F(AV)}$ | A | 0.25 | Refer to 5 |
| 4 | Peak Surge Forward Current | I_{FSM} | A | 15 | |
| 5 | Junction Temperature | T_j | °C | -40~+150 | |
| 6 | Storage Temperature | T_{stg} | °C | -40~+150 | |

4. Electrical characteristics (Ta=25°C, unless otherwise specified)

| No. | Item | Symbol | Unit | Value | Conditions |
|-----|--|----------------|------|-----------|--|
| 1 | Forward Voltage Drop | V_F | V | 2.5 max. | $I_F=0.25A$ |
| 2 | Reverse Leakage Current | I_R | μA | 10 max. | $V_R=V_{RM}$ |
| 3 | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | μA | 150 max. | $V_R=V_{RM}$, Ta=100°C |
| 4 | Reverse Recovery Time | trr-1 | μs | 0.4 max. | $I_F=I_{RP}=10mA$, Ta=25°C 90% Recovery point |
| | | trr-2 | μs | 0.18 max. | $I_F=10mA$, $I_{RP}=20mA$, Ta=25°C 75% Recovery point |
| 5 | Thermal Resistance | θ_{j-l} | °C/W | 20 max. | Between Junction and Lead |

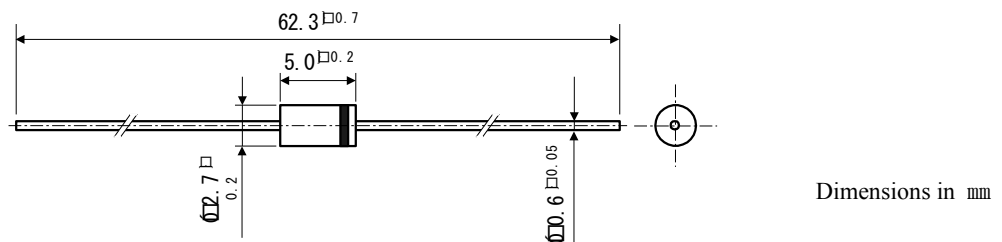
5. Derating

Derating to the ambient temperature.
 Power loss generated by voltage is not taken into consideration.



6. Package information

6.1 Package type, physical dimensions and material



*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)

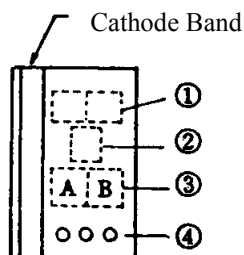
*2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)

*3 The burr may exit up to 2mm from the body of lead

6.2 Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

6.3 Marking



① Type number U0 as abbreviated of EU01

② Class number Noshing : 400V type

③ Lot number

A : Last digit of calendar year

B : Month (From 1 to 9 for Jan. to Sep. O for Oct. N for Nov. D for Dec.)

④ Ten days (· first ten days, · · second ten days, ... third ten days)