

1. Scope

The present specifications shall apply to an EG01A.

2. Outline

|              |                              |
|--------------|------------------------------|
| Type         | Silicon Diode                |
| Structure    | Resin Molded                 |
| Applications | High Frequency Rectification |

3. Flammability

UL94V-0(Equivalent)

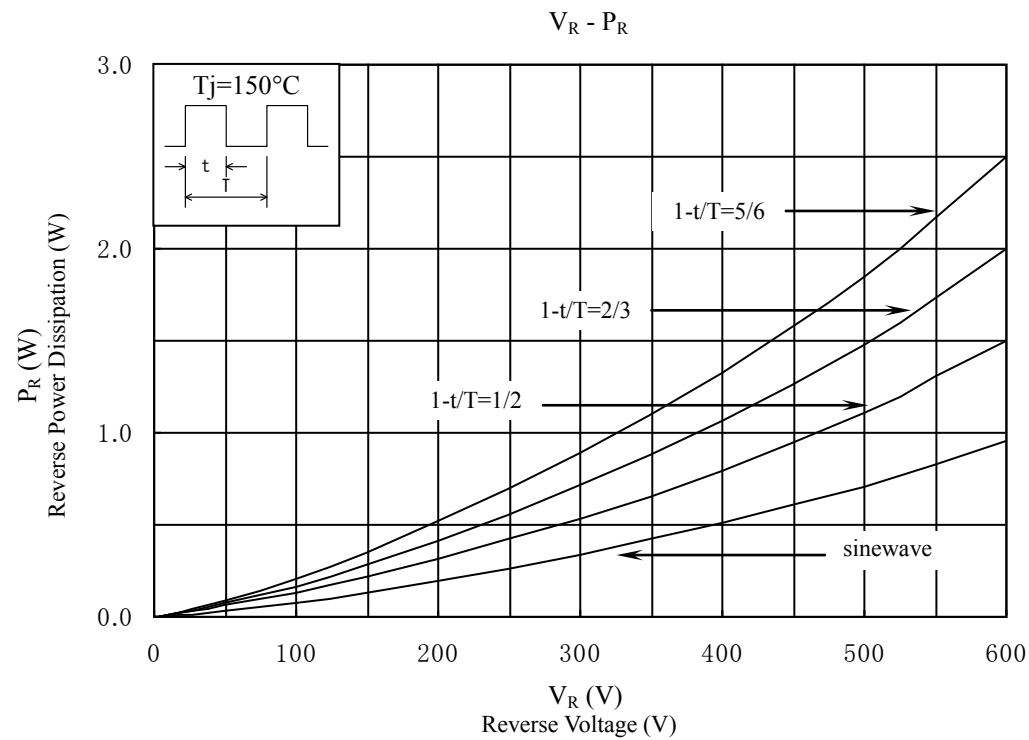
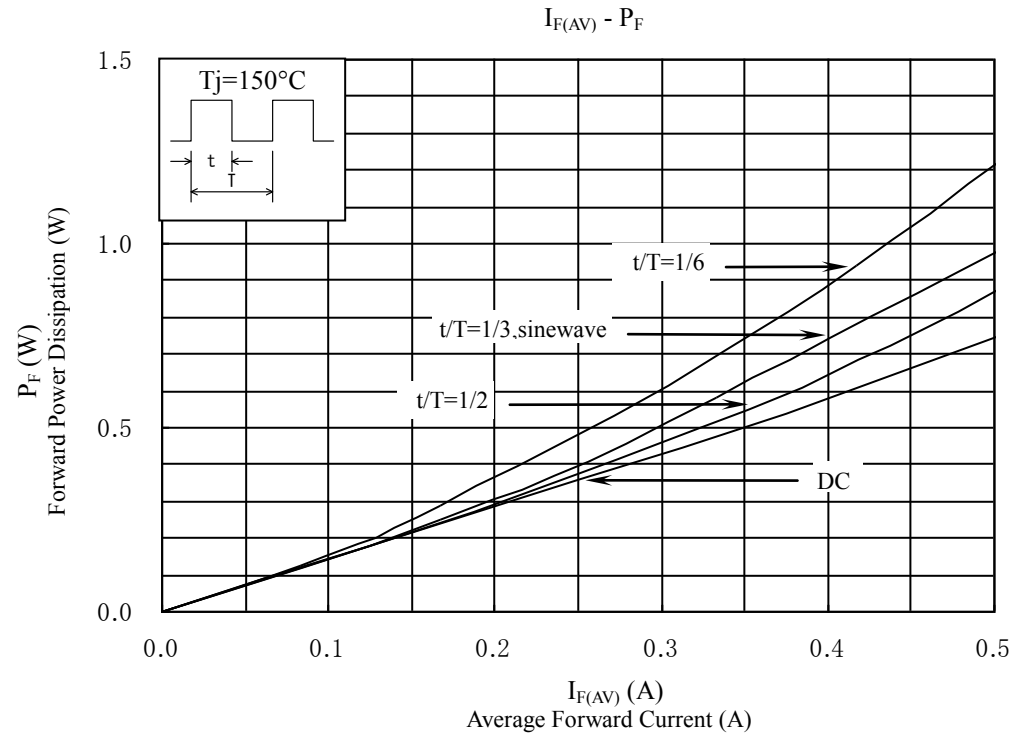
## 4. Absolute maximum ratings

| No. | Item                           | Symbol      | Unit   | Rating   | Conditions                         |
|-----|--------------------------------|-------------|--------|----------|------------------------------------|
| 1   | Transient Peak Reverse Voltage | $V_{RSM}$   | V      | 600      |                                    |
| 2   | Peak Reverse Voltage           | $V_{RM}$    | V      | 600      |                                    |
| 3   | Average Forward Current        | $I_{F(AV)}$ | A      | 0.5      | Refer to Derating of 7             |
| 4   | Peak Surge Forward Current     | $I_{FSM}$   | A      | 10       | 10msec.<br>Half sinewave, one shot |
| 5   | $I^2t$ Limiting Value          | $I^2t$      | $A^2s$ | 0.5      | $1msec \leq t \leq 10msec$         |
| 6   | Junction Temperature           | $T_j$       | °C     | -40~+150 |                                    |
| 7   | Storage Temperature            | $T_{stg}$   | °C     | -40~+150 |                                    |

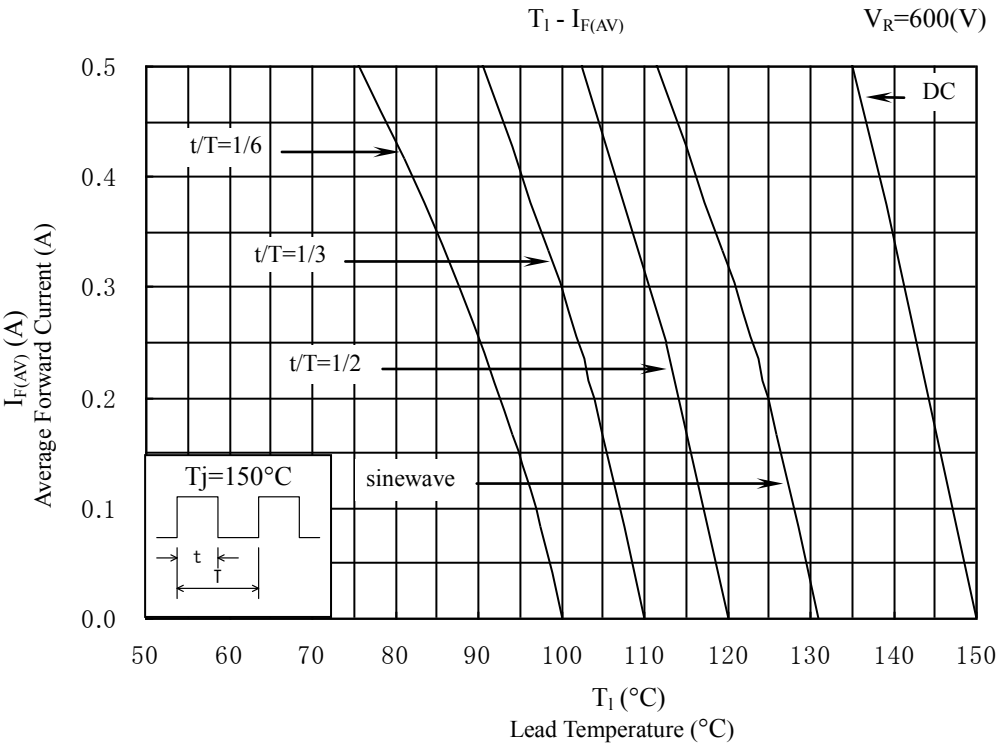
## 5. Electrical characteristics

| No. | Item                                           | Symbol        | Unit  | Value    | Conditions                                                           |
|-----|------------------------------------------------|---------------|-------|----------|----------------------------------------------------------------------|
| 1   | Forward Voltage Drop                           | $V_F$         | V     | 2.0 max. | $I_F=0.5$                                                            |
| 2   | Reverse Leakage Current                        | $I_R$         | uA    | 100 max. | $V_R=V_{RM}$                                                         |
| 3   | Reverse Leakage Current Under High Temperature | $H \cdot I_R$ | uA    | 500 max. | $V_R=V_{RM}$ , $T_j=100^\circ C$                                     |
| 4   | Reverse Recovery Time                          | trr-1         | ns    | 100 max. | $I_F=I_{RP}=100mA$<br>90% Recovery point, $T_i=25^\circ C$           |
|     |                                                | trr-2         | ns    | 50 max.  | $I_F=100mA$ , $I_{RP}=200mA$<br>75% Recovery point, $T_i=25^\circ C$ |
| 5   | Thermal Resistance                             | $R_{th(j-l)}$ | °C /W | 20 max.  | Between Junction and Lead                                            |

6. Characteristics

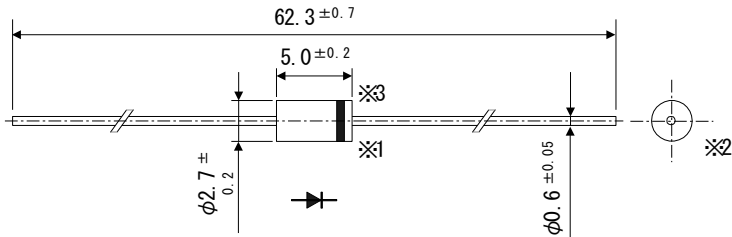


7. Derating



8. Package information

8-1 Package type, physical dimensions and material



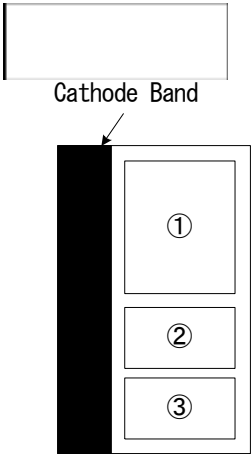
- \*1 The allowance position of Body against the center of whole lead wire is 0.5mm(max.)
- \*2 The centric allowance of lead wire against center of physical body is 0.2mm(max.)
- \*3 The burr may exit up to 2mm from the body of lead

Dimensions in mm

8-2 Appearance

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

8-3 Marking



- ① Type number EG01A is abbreviated as  $G^0_A$
- ② Lot number 1  
First digit: Last digit of Year  
Second digit: Month  
From 1 to 9 for Jan. to Sep.  
O for Oct., N for Nov., and D for Dec.
- ③ Lot number 2 (ten days)  
• : Top of the month  
•• : Middle of month  
••• : End of month