

S1WB(A)60-7062

Bridge Diodes  
600V, 1A

Feature

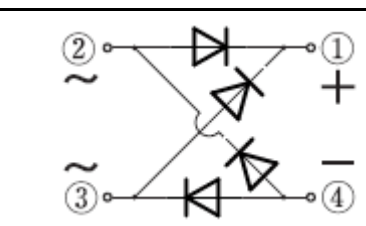
- Small SMD (There is also DIP)
- High Reliability
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1W



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tl=25°C)

| Item                                | Symbol | Conditions                                                 | Ratings    | Unit |
|-------------------------------------|--------|------------------------------------------------------------|------------|------|
| Storage temperrature                | Tstg   |                                                            | -40 to 150 | °C   |
| Junction temperature                | Tj     |                                                            | 150        | °C   |
| Repetitive peak reverse voltage     | VRRM   |                                                            | 600        | V    |
| Non-repetitive peak reverse voltage | VRSM   |                                                            | 700        | V    |
| Average forward current             | IF(AV) | 50Hz sine wave, Resistance load, Ta=25°C                   | 1          | A    |
| Surge forward current               | IFSM   | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 30         | A    |
| Current squared time                | I²t    | 1ms≤t<10ms, Tj=25°C, per diode                             | 4.5        | A²s  |

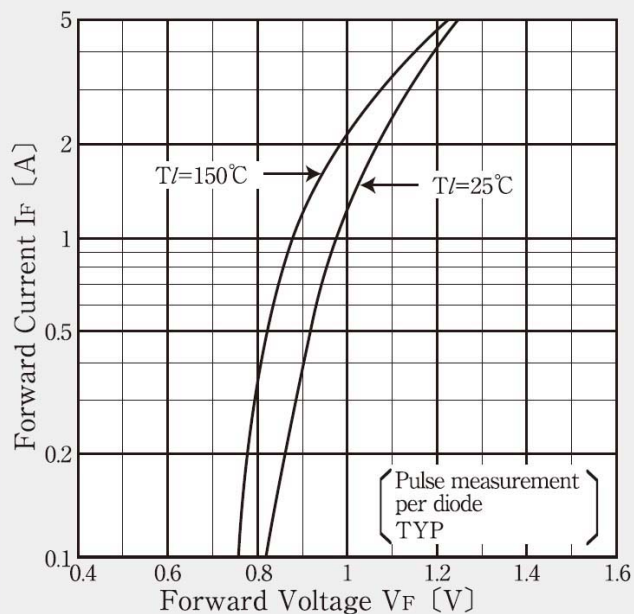
※ :See the original Specifications

**Electrical Characteristics** (unless otherwise specified : Tl=25°C)

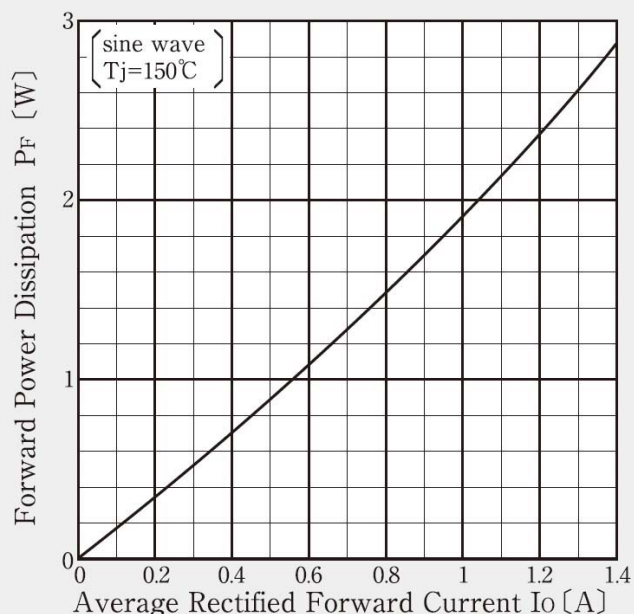
| Item               | Symbol        | Conditions                                | Ratings |     |     | Unit          |
|--------------------|---------------|-------------------------------------------|---------|-----|-----|---------------|
|                    |               |                                           | MIN     | TYP | MAX |               |
| Forward voltage    | $V_F$         | $I_F=0.5A$ , Pulse measurement, per diode |         |     | 1   | V             |
| Reverse current    | $I_R$         | $V_R=600V$ , Pulse measurement, per diode |         |     | 10  | $\mu A$       |
| Thermal resistance | $R_{th(j-l)}$ | Junction to lead                          |         |     | 10  | $^{\circ}C/W$ |
| Thermal resistance | $R_{th(j-a)}$ | Junction to ambient                       |         |     | 65  | $^{\circ}C/W$ |

※ : See the original Specifications

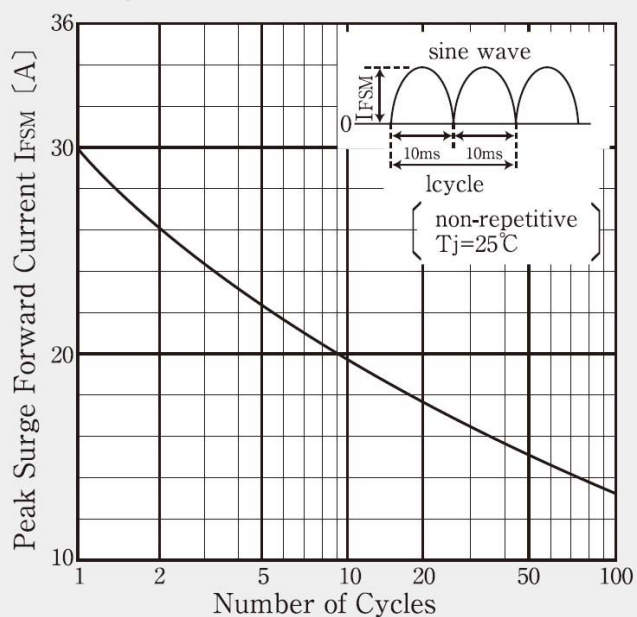
## Forward Voltage



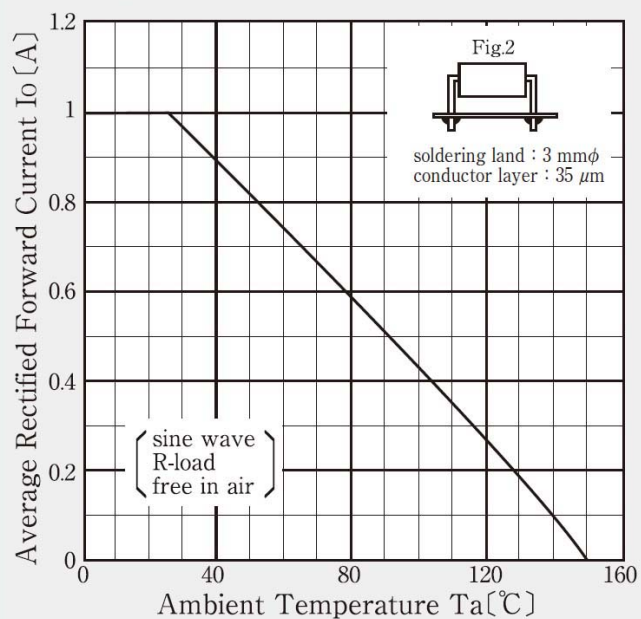
## Forward Power Dissipation



## Peak Surge Forward Current Capability

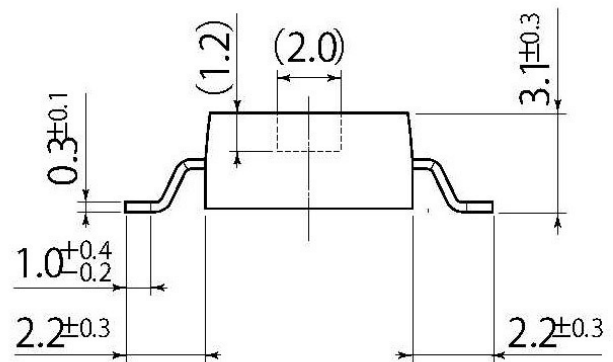
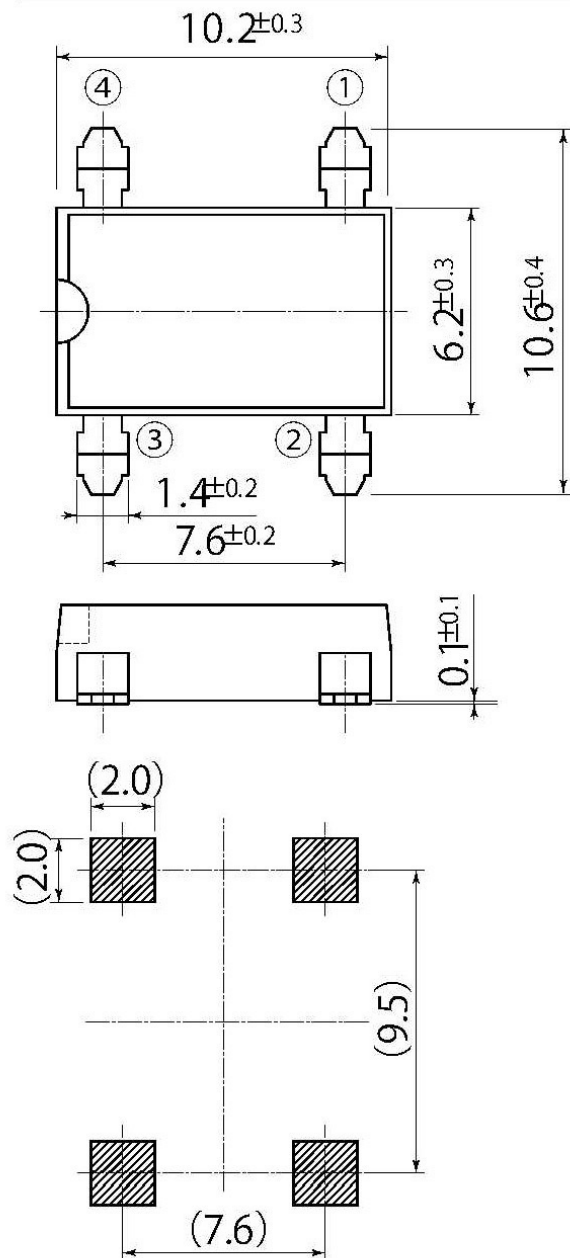


## Derating Curve



C8

|            |         |
|------------|---------|
| JEDEC Code | —       |
| JEITA Code | —       |
| House Name | 1W(SMD) |



Referential Soldering Pad

- Optimize soldering pad to the board design and soldering condition.

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