

S1ZB60-7101

Bridge Diodes  
600V, 0.8A

Feature

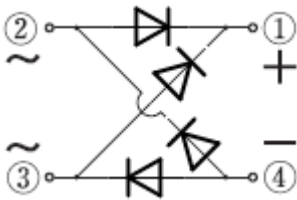
- Small DIP (There is also SMD)
- High Reliability
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 1Z



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     |                                                                      | -40 to 150 | °C   |
| Repetitive peak reverse voltage | VRRM   |                                                                      | 600        | V    |
| Average forward current         | IF(AV) | 50Hz sine wave, Resistance load, Tl=117°C                            | 0.8        | A    |
| Average forward current         | IF(AV) | 50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C ※     | 0.8        | A    |
| Average forward current         | IF(AV) | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※ | 0.5        | A    |
| Surge forward current           | IFSM   | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C           | 30         | A    |
| Current squared time            | I²t    | 1ms≤tp<10ms, Tj=25°C, per diode                                      | 4.5        | A²s  |

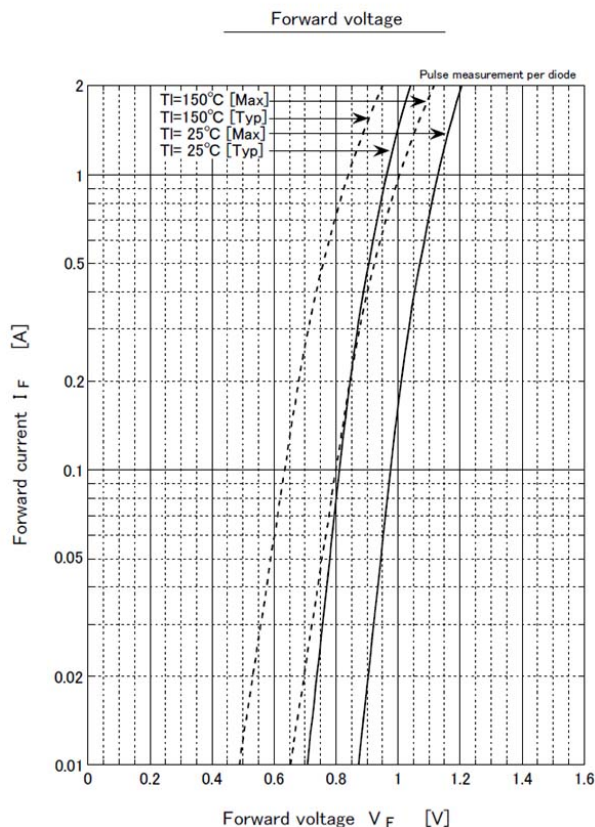
※ :See the original Specifications

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

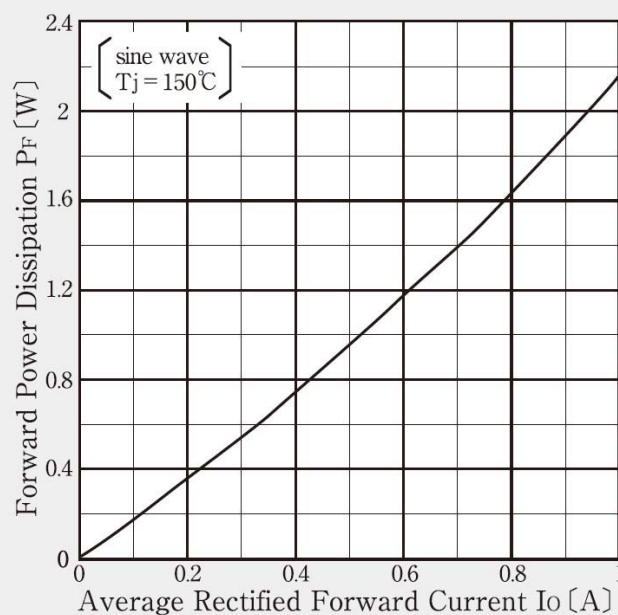
| Item               | Symbol        | Conditions                                      | Ratings |     |      | Unit          |
|--------------------|---------------|-------------------------------------------------|---------|-----|------|---------------|
|                    |               |                                                 | MIN     | TYP | MAX  |               |
| Forward voltage    | $V_F$         | $I_F=0.4A$ , Pulse measurement, per diode       |         |     | 1.05 | V             |
| Reverse current    | $I_R$         | $V_R=600V$ , Pulse measurement, per diode       |         |     | 10   | $\mu A$       |
| Thermal resistance | $R_{th(j-l)}$ | Junction to lead                                |         |     | 20   | $^{\circ}C/W$ |
| Thermal resistance | $R_{th(j-a)}$ | Junction to ambient, On alumina substrate ※     |         |     | 76   | $^{\circ}C/W$ |
| Thermal resistance | $R_{th(j-a)}$ | Junction to ambient, On glass-epoxy substrate ※ |         |     | 134  | $^{\circ}C/W$ |

※ :See the original Specifications

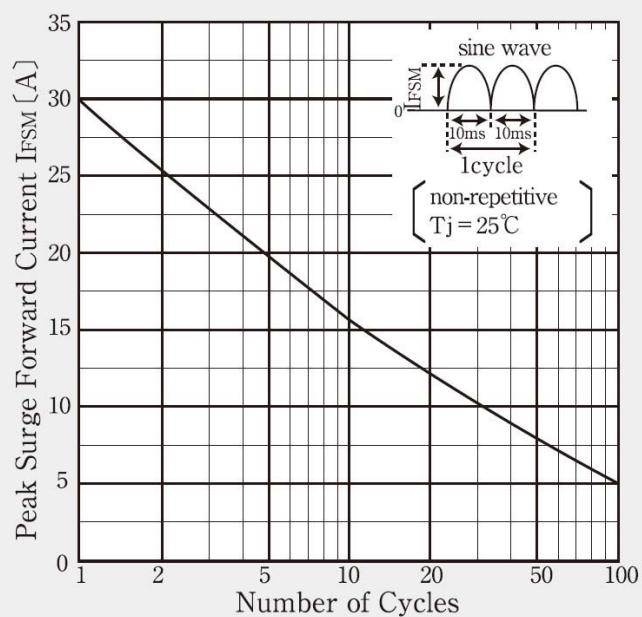
## CHARACTERISTIC DIAGRAMS



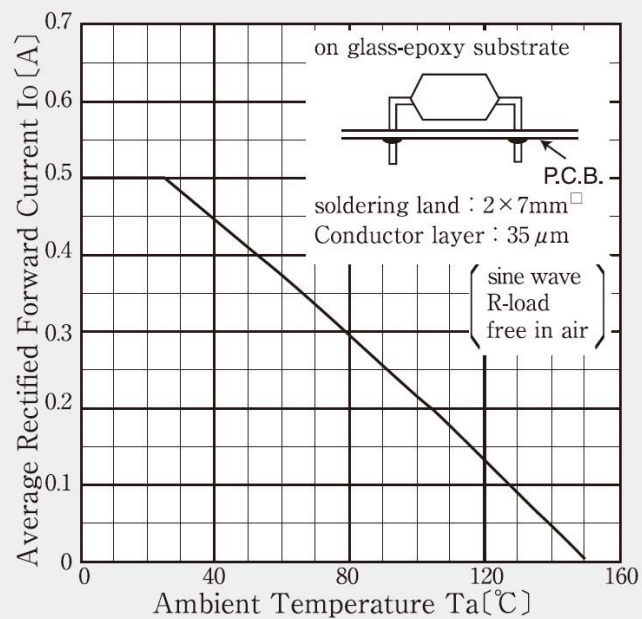
### Forward Power Dissipation



### Peak Surge Forward Current Capability

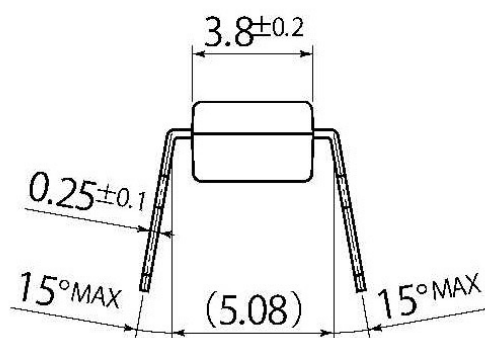
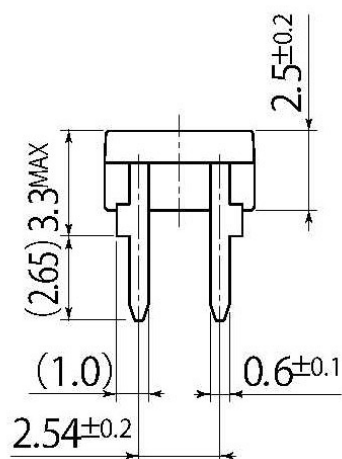
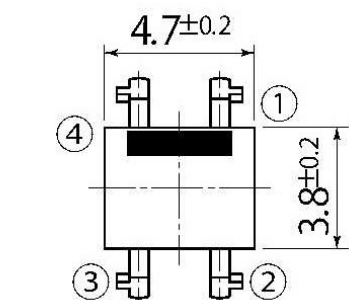


### Derating Curve (DIP)



C3

|            |         |
|------------|---------|
| JEDEC Code | —       |
| JEITA Code | —       |
| House Name | 1Z(DIP) |



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