

S15WB60

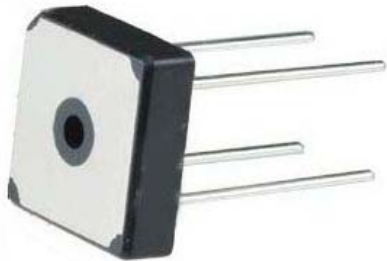
Bridge Diodes  
600V, 15A

Feature

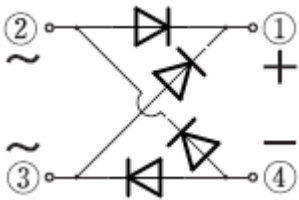
- Input/Output In-line
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): S15WB



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=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                |
| Average forward current         | IF(AV)           | 50Hz sine wave, Resistance load, With heatsink, Tc=77°C    | 15         | A                |
| Average forward current         | IF(AV)           | 50Hz sine wave, Resistance load, Without heatsink, Ta=25°C | 4          | A                |
| Surge forward current           | IFSM             | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C | 200        | A                |
| Current squared time            | I <sup>2</sup> t | 1ms≤t<10ms, Tj=25°C, per diode                             | 200        | A <sup>2</sup> s |
| Dielectric strength             | Vdis             | Terminals to case, AC 1 minute                             | 2          | kV               |
| Mounting torque                 | TOR              | (Recommended torque : 1N・m)                                | 2          | N・m              |

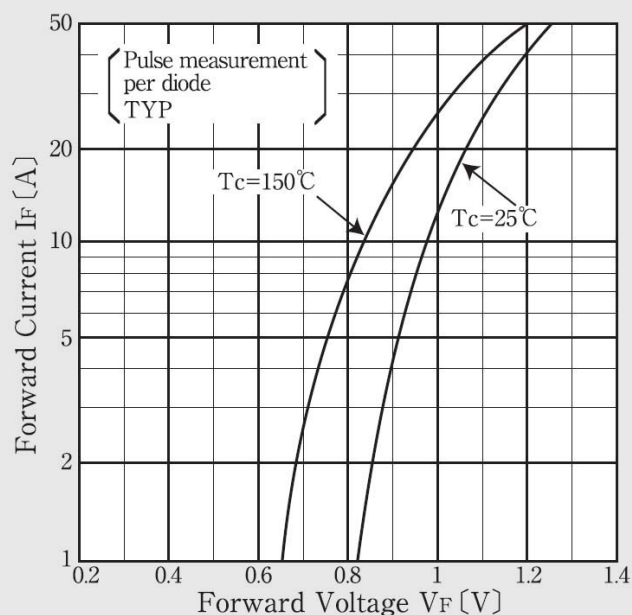
※ :See the original Specifications

**Electrical Characteristics** (unless otherwise specified : T<sub>c</sub>=25°C)

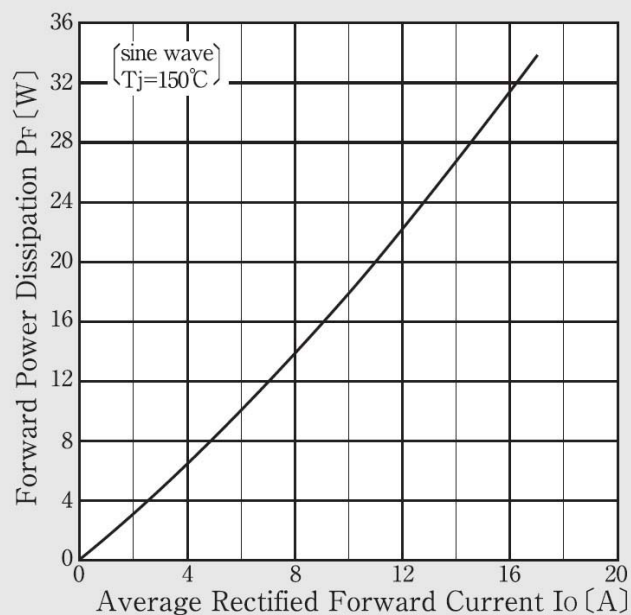
| Item               | Symbol               | Conditions                                         | Ratings |     |      | Unit |
|--------------------|----------------------|----------------------------------------------------|---------|-----|------|------|
|                    |                      |                                                    | MIN     | TYP | MAX  |      |
| Forward voltage    | V <sub>F</sub>       | I <sub>F</sub> =7.5A, Pulse measurement, per diode |         |     | 1.05 | V    |
| Reverse current    | I <sub>R</sub>       | V <sub>R</sub> =600V, Pulse measurement, per diode |         |     | 10   | μA   |
| Thermal resistance | R <sub>th(j-c)</sub> | Junction to case                                   |         |     | 2.5  | °C/W |
| Thermal resistance | R <sub>th(j-l)</sub> | Junction to lead                                   |         |     | 2    | °C/W |
| Thermal resistance | R <sub>th(j-a)</sub> | Junction to ambient                                |         |     | 19   | °C/W |

※ :See the original Specifications

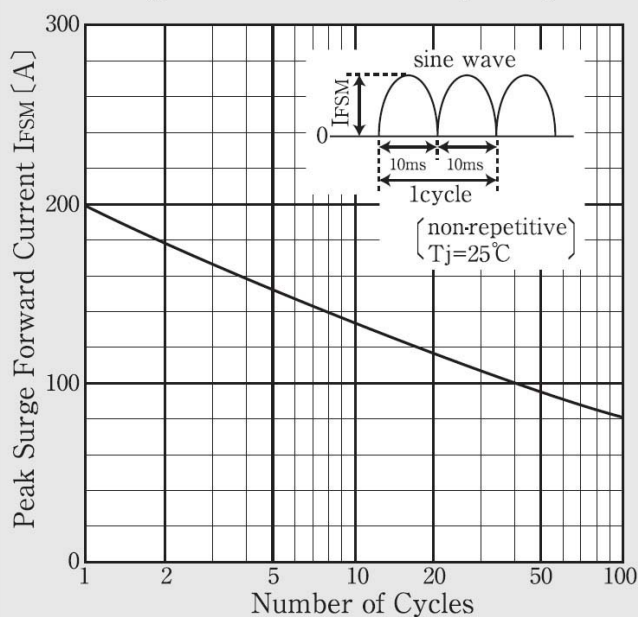
## Forward Voltage



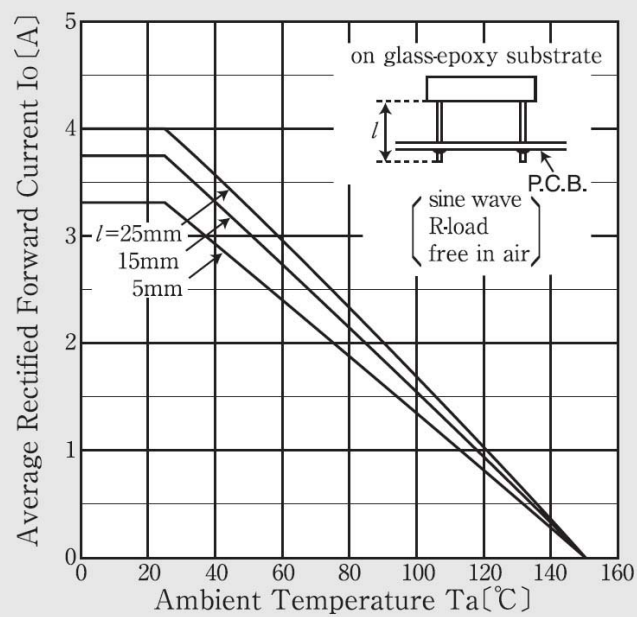
## Forward Power Dissipation



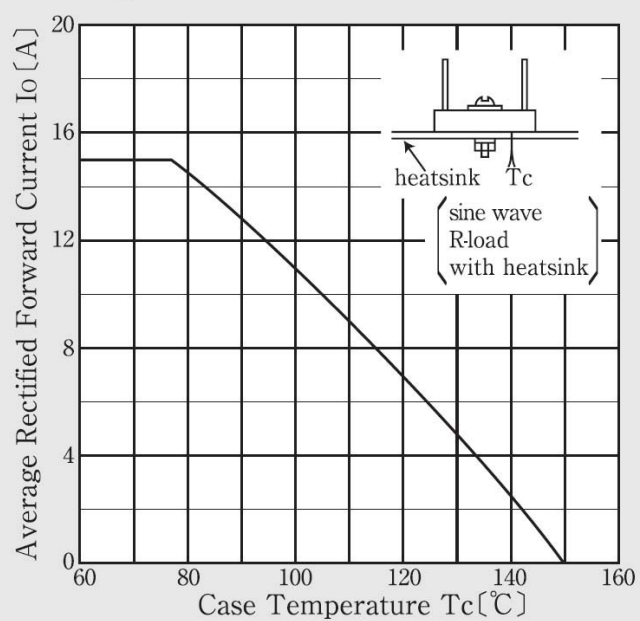
## Peak Surge Forward Current Capability



## Derating Curve

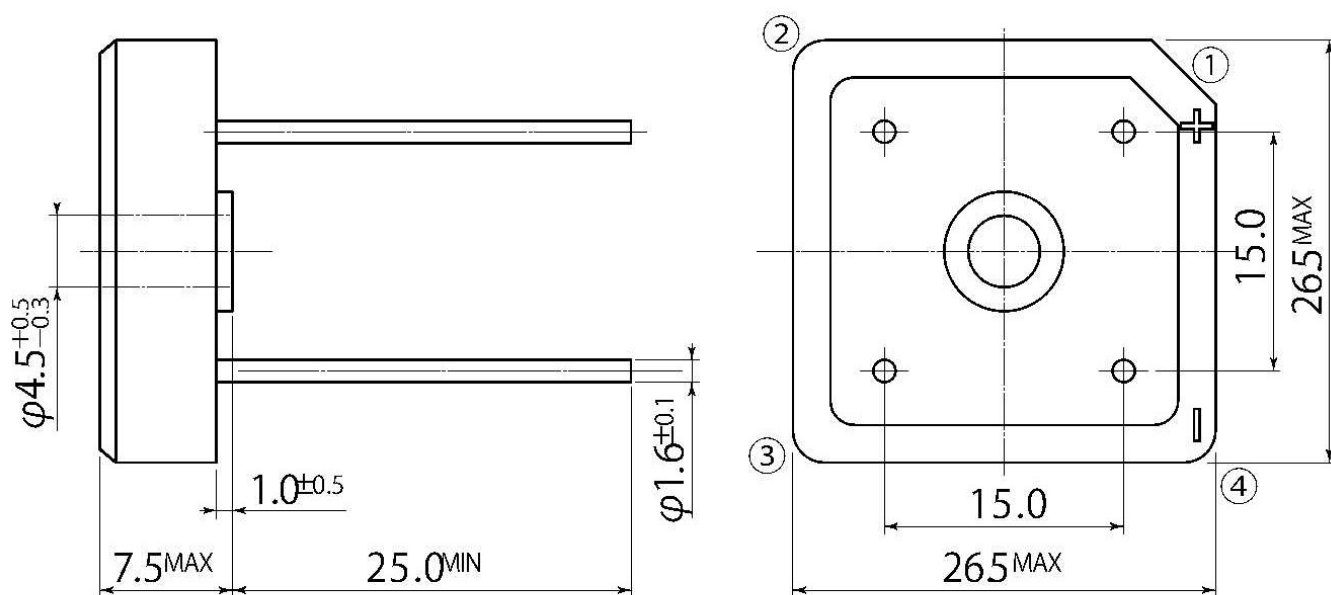


Derating Curve



E12

|            |       |
|------------|-------|
| JEDEC Code | —     |
| JEITA Code | —     |
| House Name | S15WB |



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