

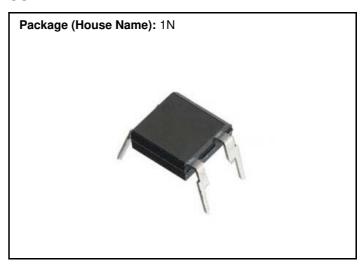
# S1NB80-7101

# Bridge Diodes 800V, 1A

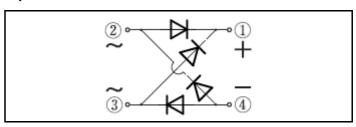
#### **Feature**

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

### **OUTLINE**



# **Equivalent circuit**



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

| Item                            | Symbol              | Conditions   | Ratings    | Unit             |
|---------------------------------|---------------------|--|------------|------------------|
| Storage temperrature            | Tstg                |  | -40 to 150 | °C               |
| Junction temperature            | Tj                  |  | 150        | °C               |
| Repetitive peak reverse voltage | $V_{RRM}$           |  | 800        | V                |
| Average forward current         | I <sub>F</sub> (AV) | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C | 1          | Α                |
| Surge forward current           | I <sub>FSM</sub>    | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C         | 30         | Α                |
| Current squared time            | l²t                 | 1ms≦t<10ms, Tj=25°C, per diode                                     | 4.5        | A <sup>2</sup> s |

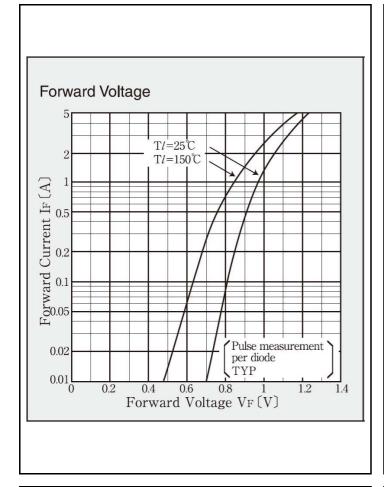
<sup>\* :</sup> See the original Specifications

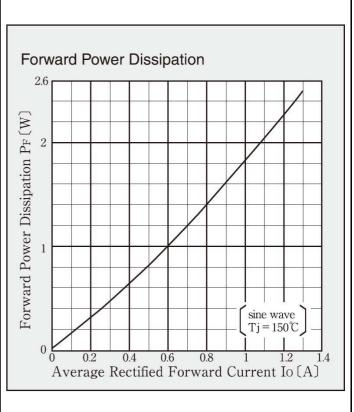
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

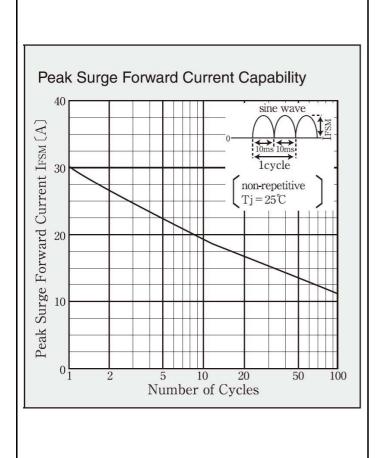
| Item               | Symbol         | Conditions                            | Ratings |     |      | Unit |
|--------------------|----------------|---------------------------------------|---------|-----|------|------|
|                    |                |                                       | MIN     | TYP | MAX  | J    |
| Forward voltage    | V <sub>F</sub> | IF=0.5A, Pulse measurement, per diode |         |     | 1.05 | V    |
| Reverse current    | I <sub>R</sub> | VR=800V, Pulse measurement, per diode |         |     | 10   | μΑ   |
| Thermal resistance | Rth(j-l)       | Junction to lead                      |         |     | 15   | °C/W |
| Thermal resistance | Rth(j-a)       | Junction to ambient                   |         |     | 68   | °C/W |

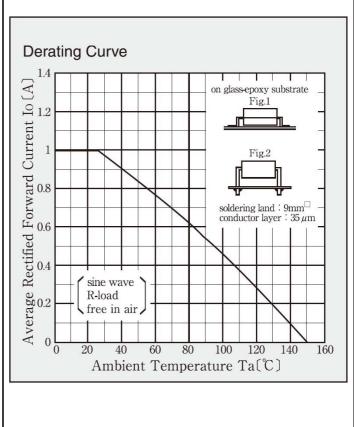
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# **CHARACTERISTIC DIAGRAMS**







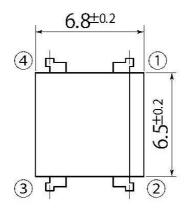


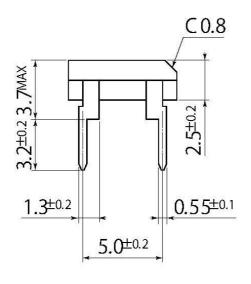
unit:mm

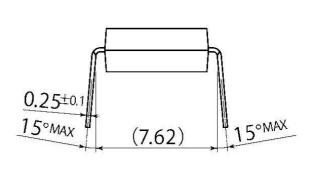
scale: 4/1

# C5

| JEDEC Code | _       |  |  |
|------------|---------|--|--|
| JEITA Code | 1       |  |  |
| House Name | 1N(DIP) |  |  |







#### **Notes**

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#### (Special applications)

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#### (Specific applications)

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