

# **LN1F60**

# General Rectifying Diodes 600V, 1.1A

#### **Feature**

- Small SMD
- · Low Noise
- · Low VF
- · Pb free terminal
- RoHS:Yes

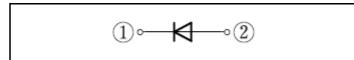
## **OUTLINE**

Package (House Name): 1F

Package (JEDEC Code): DO-214AC



# **Equivalent circuit**



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

| Item                            | Symbol              | Conditions   | Ratings    | Unit |
|---------------------------------|---------------------|--|------------|------|
| Storage temperrature            | Tstg                |  | -55 to 150 | °C   |
| Junction temperature            | Tj                  |  | -55 to 150 | °C   |
| Repetitive peak reverse voltage | $V_{RRM}$           |  | 600        | V    |
| Average forward current         | I <sub>F</sub> (AV) | 50Hz sine wave, Resistance load, On alumina substrate, Ta=25°C *     | 1.1        | Α    |
| Average forward current         | I <sub>F</sub> (AV) | 50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C * | 0.8        | Α    |
| Surge forward current           | I <sub>FSM</sub>    | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C           | 25         | Α    |
| Surge forward current           | I <sub>FSM1</sub>   | tp=1ms, sine wave, Non-repetitive, peak value, Tj=25°C               | 80         | Α    |

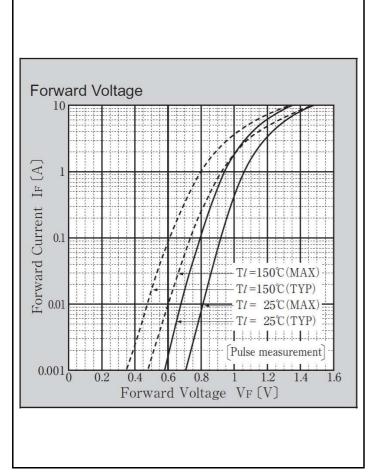
<sup>\* :</sup> See the original Specifications

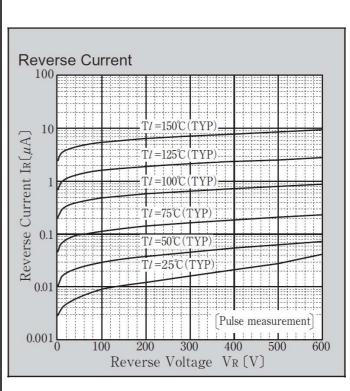
# **Electrical Characteristics** (unless otherwise specified : TI=25°C)

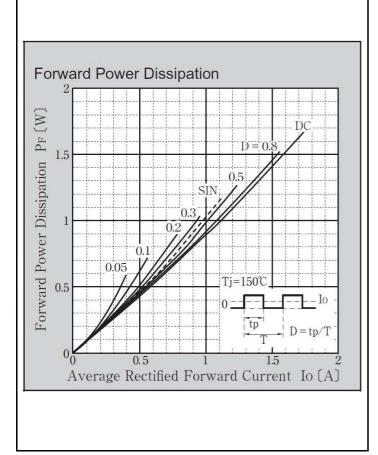
| Item                  | Symbol         | Conditions                                      | Ratings |     |      | Unit |
|-----------------------|----------------|---|---------|-----|------|------|
|                       |                | Conditions                                      |         | TYP | MAX  | Onne |
| Forward voltage       | V <sub>F</sub> | IF=0.8A, Pulse measurement                      |         |     | 1.05 | V    |
| Reverse current       | I <sub>R</sub> | VR=600V, Pulse measurement                      |         |     | 10   | μΑ   |
| Reverse recovery time | trr            | IF=0.1A, IR=0.1A, 0.1IR                         |         |     | 3.5  | μs   |
| Thermal resistance    | Rth(j-l)       | Junction to lead                                |         |     | 23   | °C/W |
| Thermal resistance    | Rth(j-a)       | Junction to ambient, On alumina substrate *     |         |     | 108  | °C/W |
| Thermal resistance    | Rth(j-a)       | Junction to ambient, On glass-epoxy substrate * |         |     | 157  | °C/W |

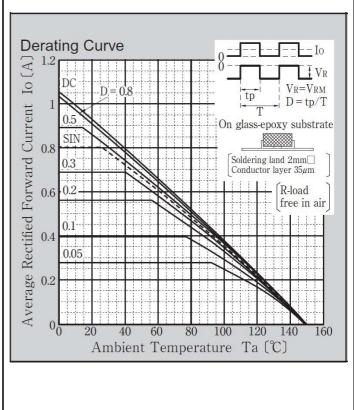
<sup>\*</sup> :See the original Specifications

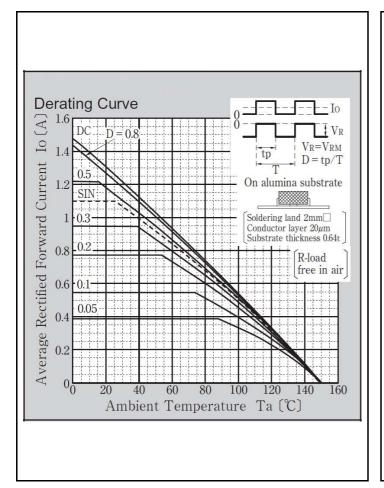
# **CHARACTERISTIC DIAGRAMS**

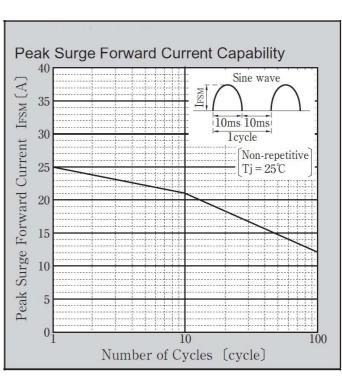


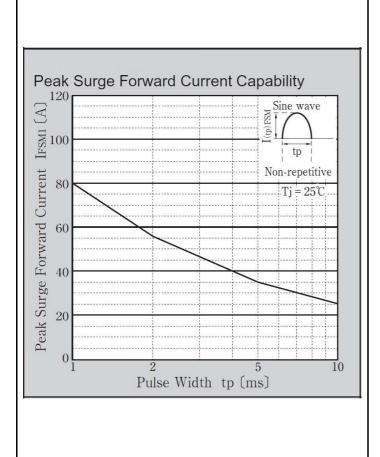


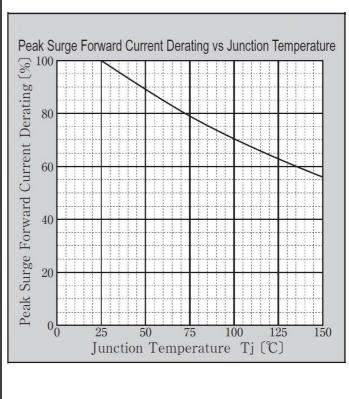


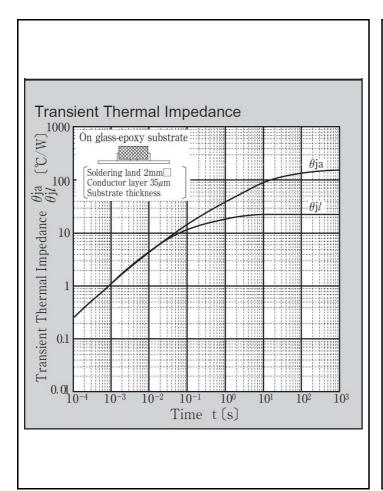


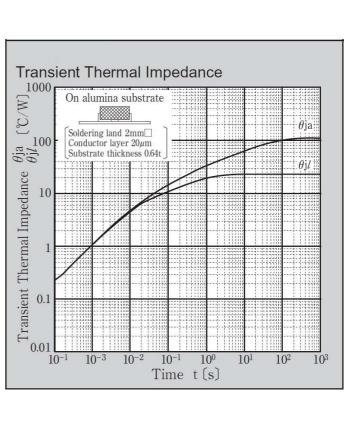








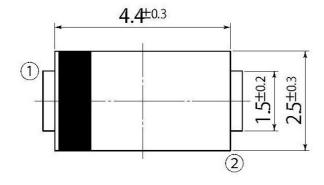


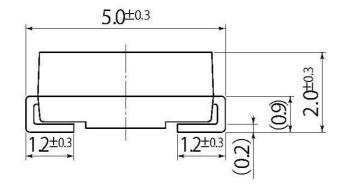


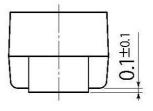
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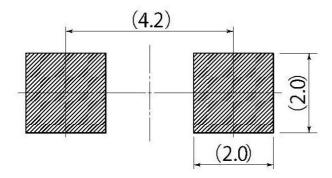
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| JEDEC Code | DO-214AC |  |
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| JEITA Code | -        |  |
| House Name | 1F       |  |









Referential Soldering Pad

<sup>•</sup> Optimize soldering pad to the board design and soldering condition.

#### **Notes**

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#### (Special applications)

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#### (Specific applications)

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