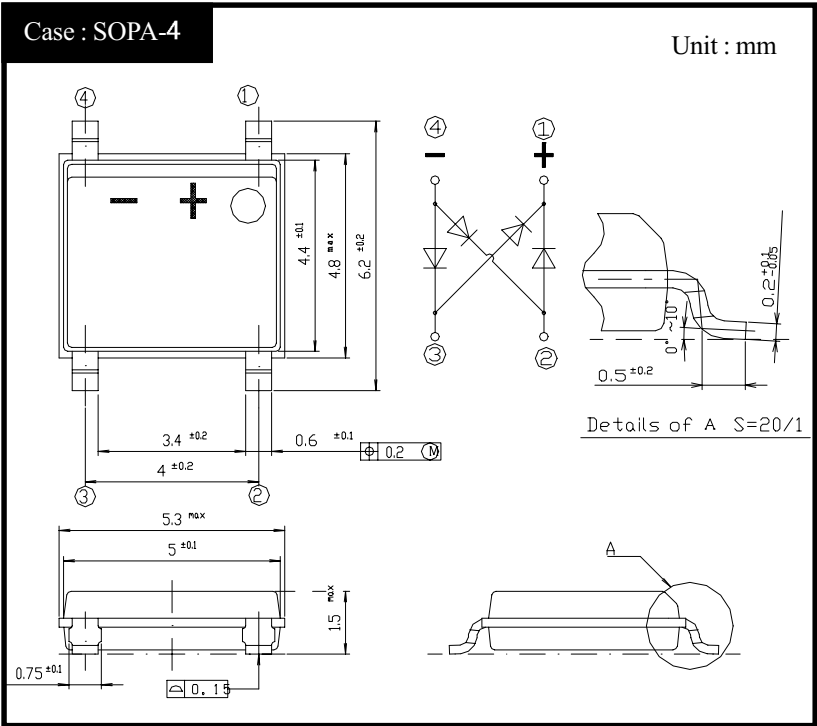


D1UBA80

800V 1A

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified Tl=25°C)

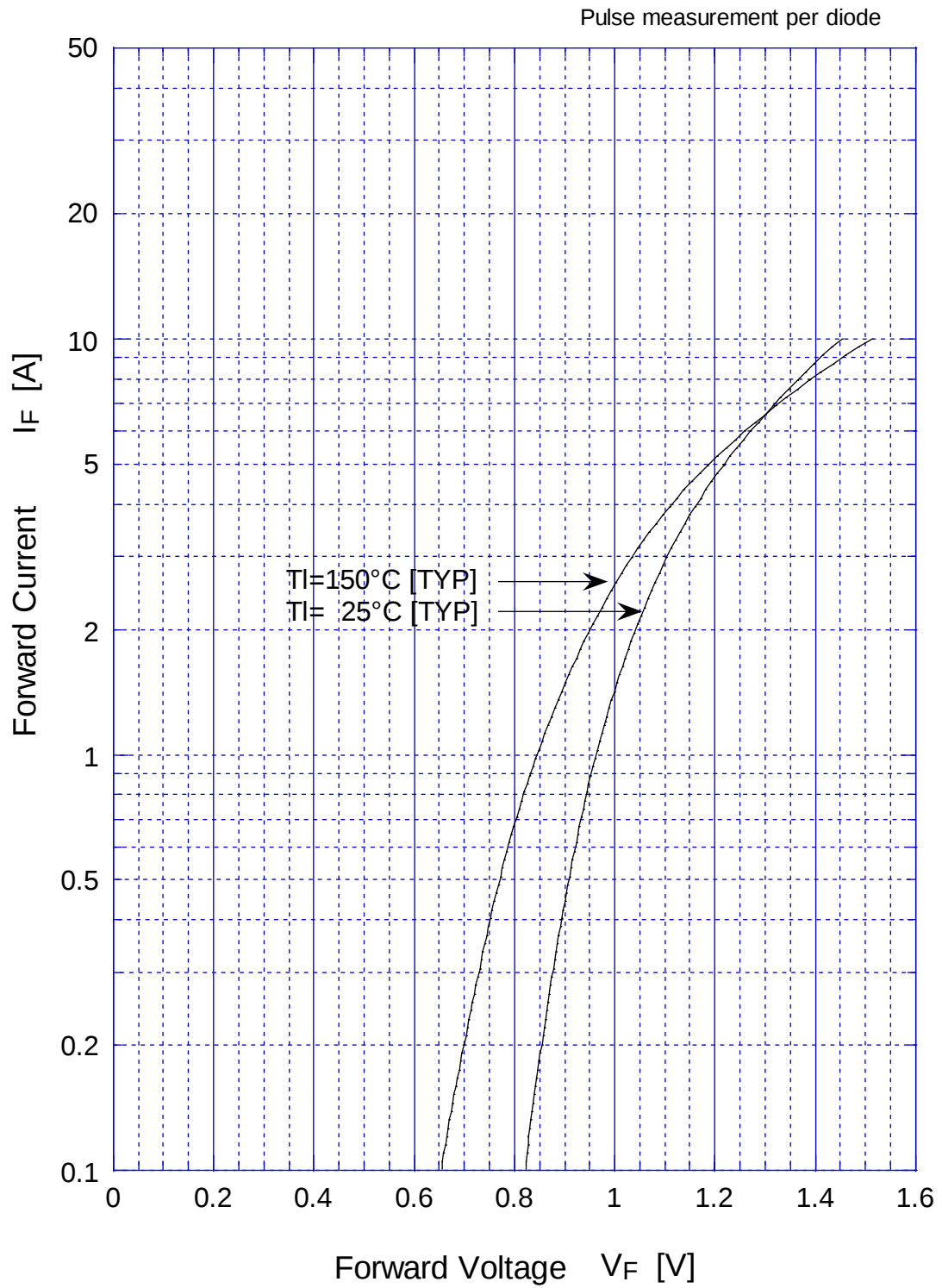
| Item                              | Symbol           | Conditions                                                  | Ratings | Unit             |
|-----------------------------------|------------------|-------------------------------------------------------------|---------|------------------|
| Storage Temperature               | Tstg             |                                                             | -55~150 | °C               |
| Operating Junction Temperature    | Tj               |                                                             | 150     | °C               |
| Maximum Reverse Voltage           | VRM              |                                                             | 800     | V                |
| Average Rectified Forward Current | Io               | 50Hz sine wave, R-load, On alumina substrate Ta=25°C        | 1.0     | A                |
|                                   |                  | 50Hz sine wave, R-load, On glass-epoxy substrate Ta=25°C    | 0.8     |                  |
| Peak Surge Forward Current        | IFSM             | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25 °C | 30      | A                |
| Current Squared Time              | I <sup>2</sup> t | 1ms≤t<10ms Tj=25 °C                                         | 3       | A <sup>2</sup> s |

●Electrical Characteristics (If not specified Tl=25°C)

| Item               | Symbol | Conditions                                      | Ratings  | Unit |
|--------------------|--------|-------------------------------------------------|----------|------|
| Forward Voltage    | VF     | IF=0.4A, Pulse measurement, Rating of per diode | Max 0.95 | V    |
| Reverse Current    | IR     | VR=800v, Pulse measurement, Rating of per diode | Max 10   | μ A  |
| Thermal Resistance | θjl    | junction to lead                                | Max 25   | °C/W |
|                    | θja    | junction to ambient, On alumina substrate       | Max 62.5 |      |
|                    | θja    | junction to ambient, On glass-epoxy substrate   | Max 80   |      |

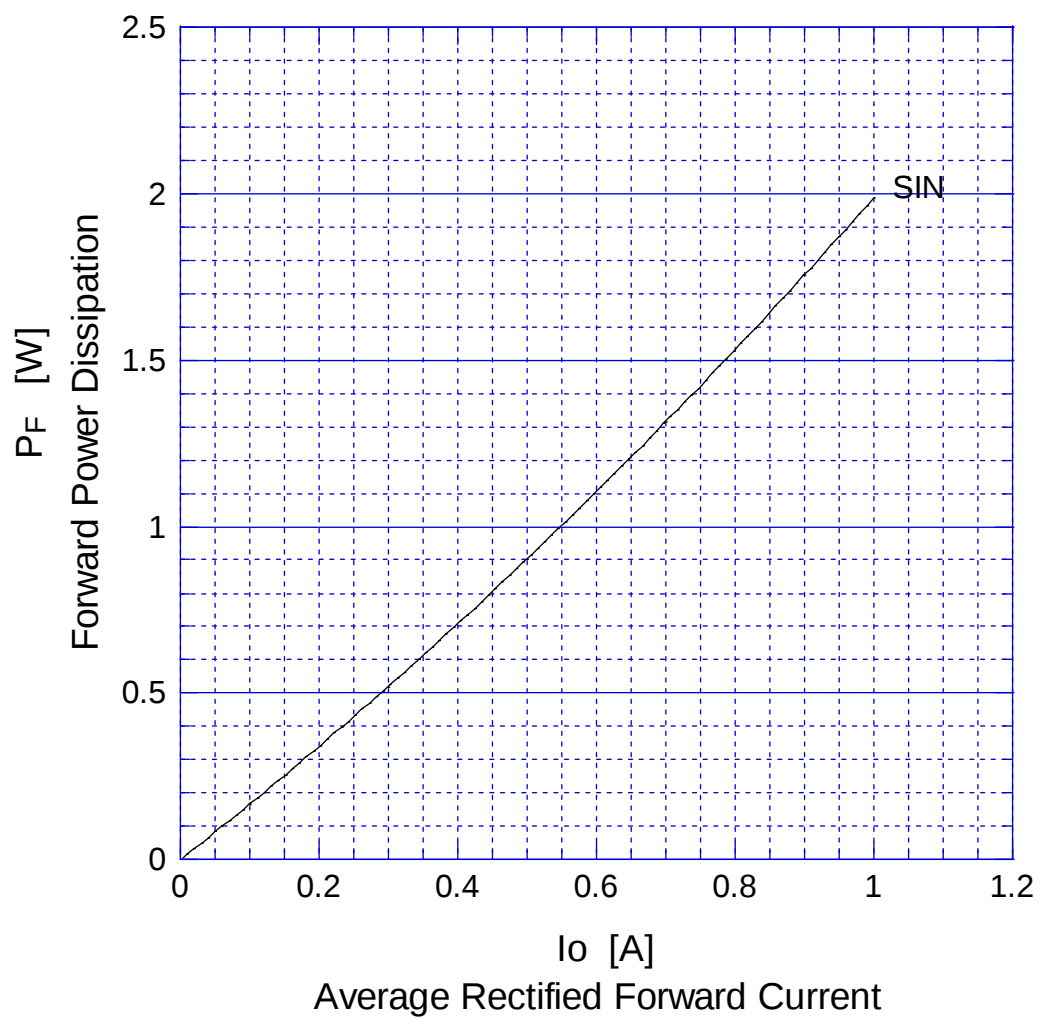
# D1UBA80

## Forward Voltage



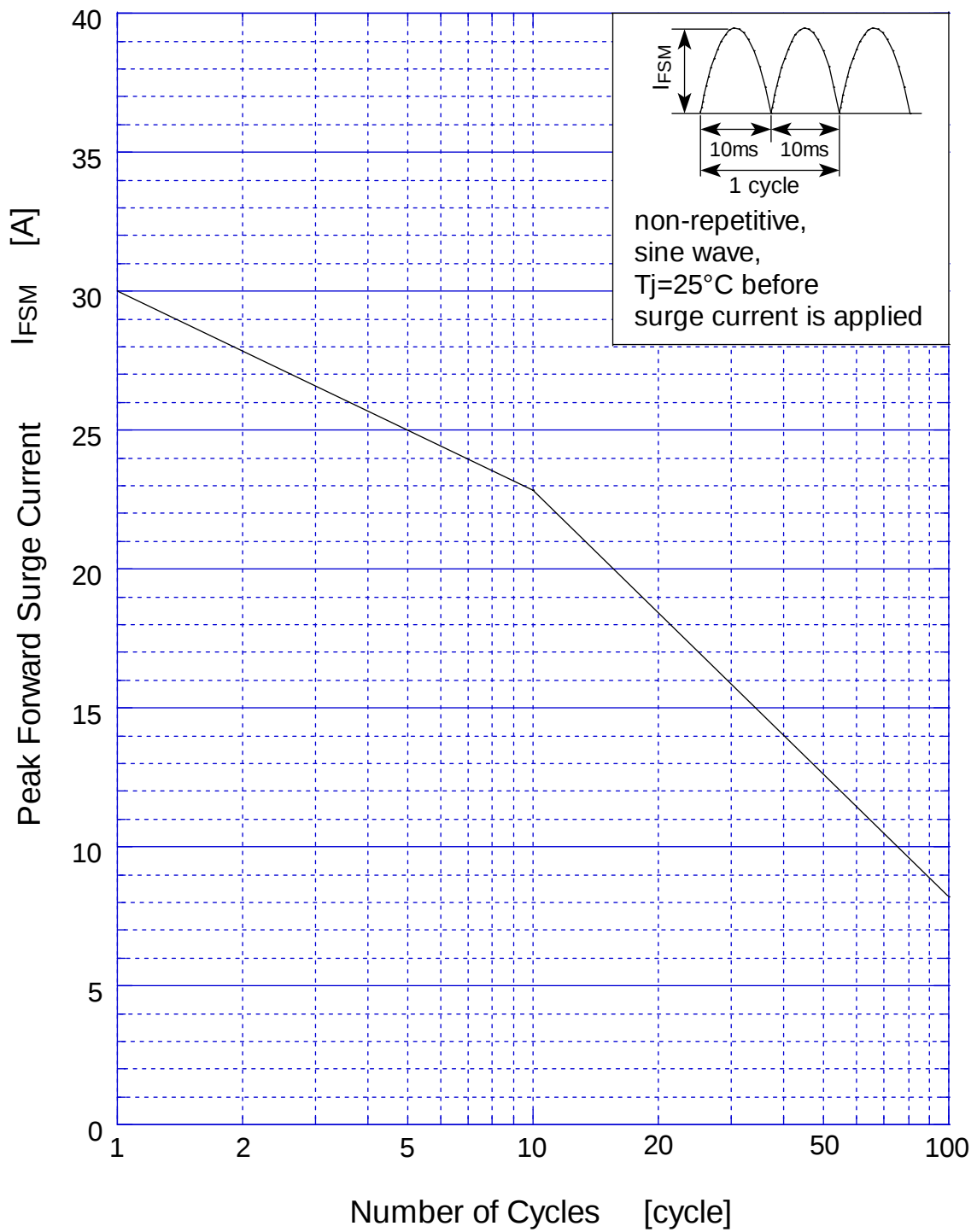
## D1UBA80 Forward Power Dissipation

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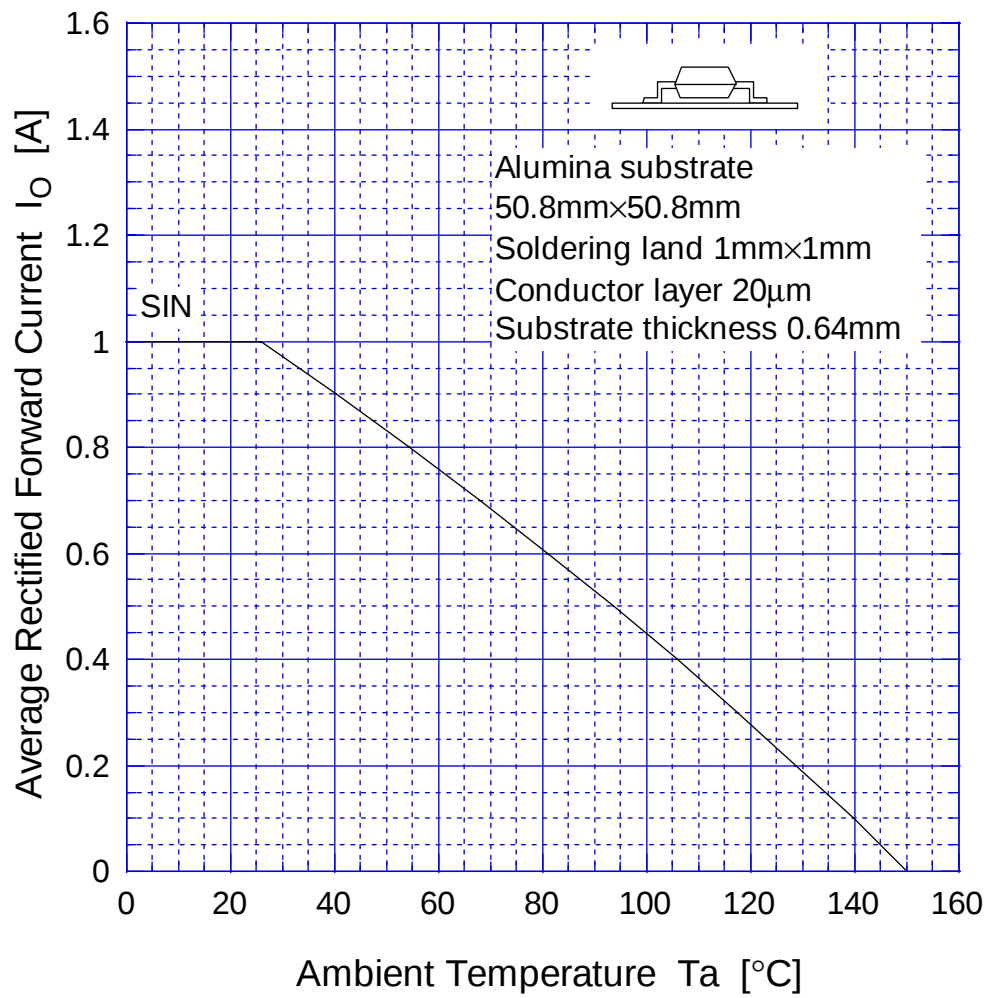
$T_j = 150^\circ\text{C}$

## D1UBA80 Peak Surge Forward Capability



# D1UBA80

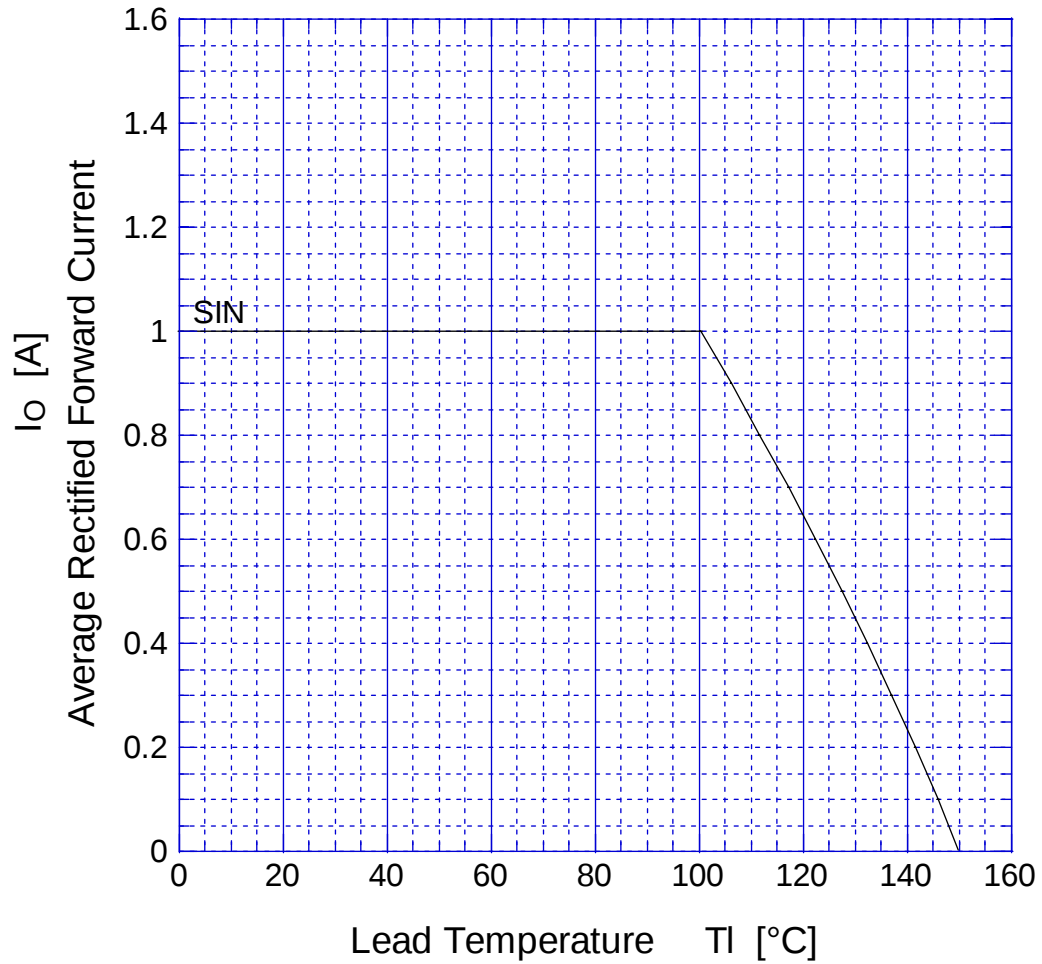
## Derating Curve



$$V_R = V_{RM}$$

D1UBA80

Derating Curve



$$V_R = V_{RM}$$