# SHINDENGEN

## General Purpose Rectifiers

**SMT Bridges**

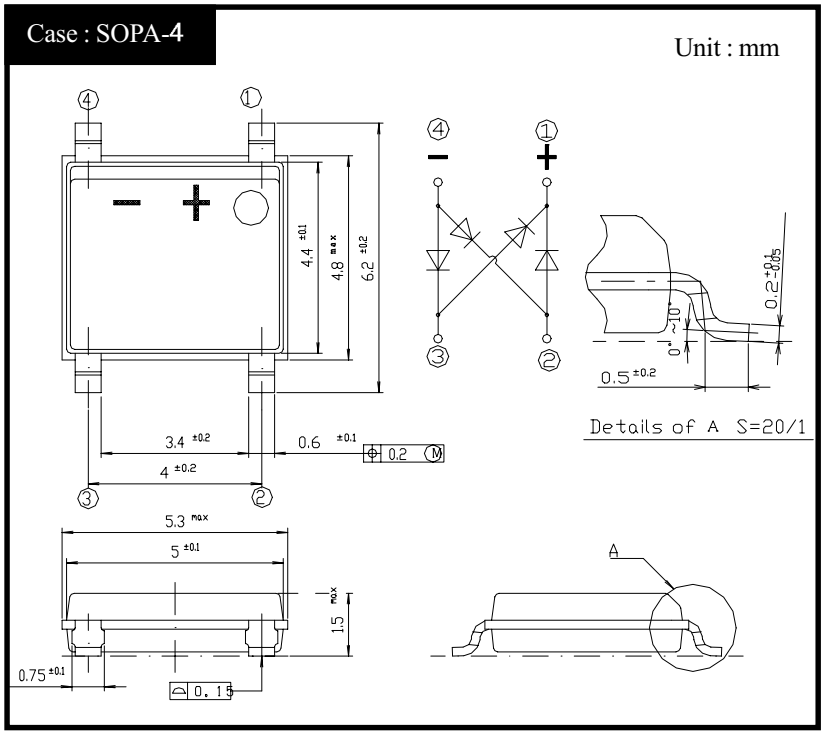
# D1UBA80

**800V 1A**

## OUTLINE DIMENSIONS

Case : SOPA-4

Unit : mm




## RATINGS

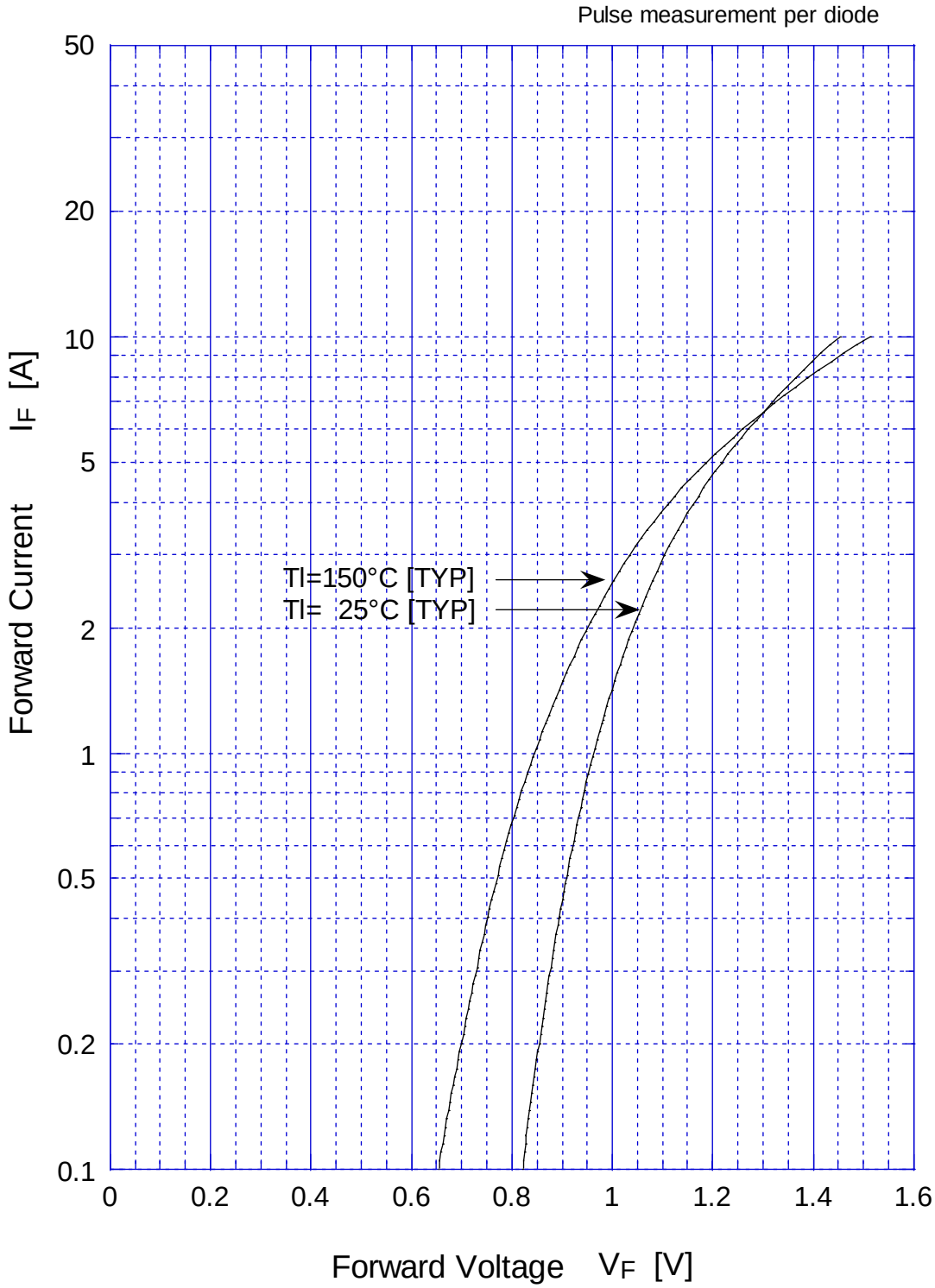
●Absolute Maximum Ratings (If not specified Tl=25℃)

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Storage Temperature | Tstg | | -55～150 | ℃ |
| Operating Junction Temperature | Tj | | 150 | ℃ |
| Maximum Reverse Voltage | $V_{RM}$ | | 800 | V |
| Average Rectified Forward Current | Io | 50Hz sine wave, R-load, On alumina substrate Ta=25℃ | 1.0 | A |
| | | 50Hz sine wave, R-load, On glass-epoxy substrate Ta=25℃ | 0.8 | |
| Peak Surge Forward Current | $I_{FSM}$ | 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25 ℃ | 30 | A |
| Current Squared Time | $I^2t$ | 1ms≦t＜10ms Tj=25 ℃ | 3 | $A^2s$ |

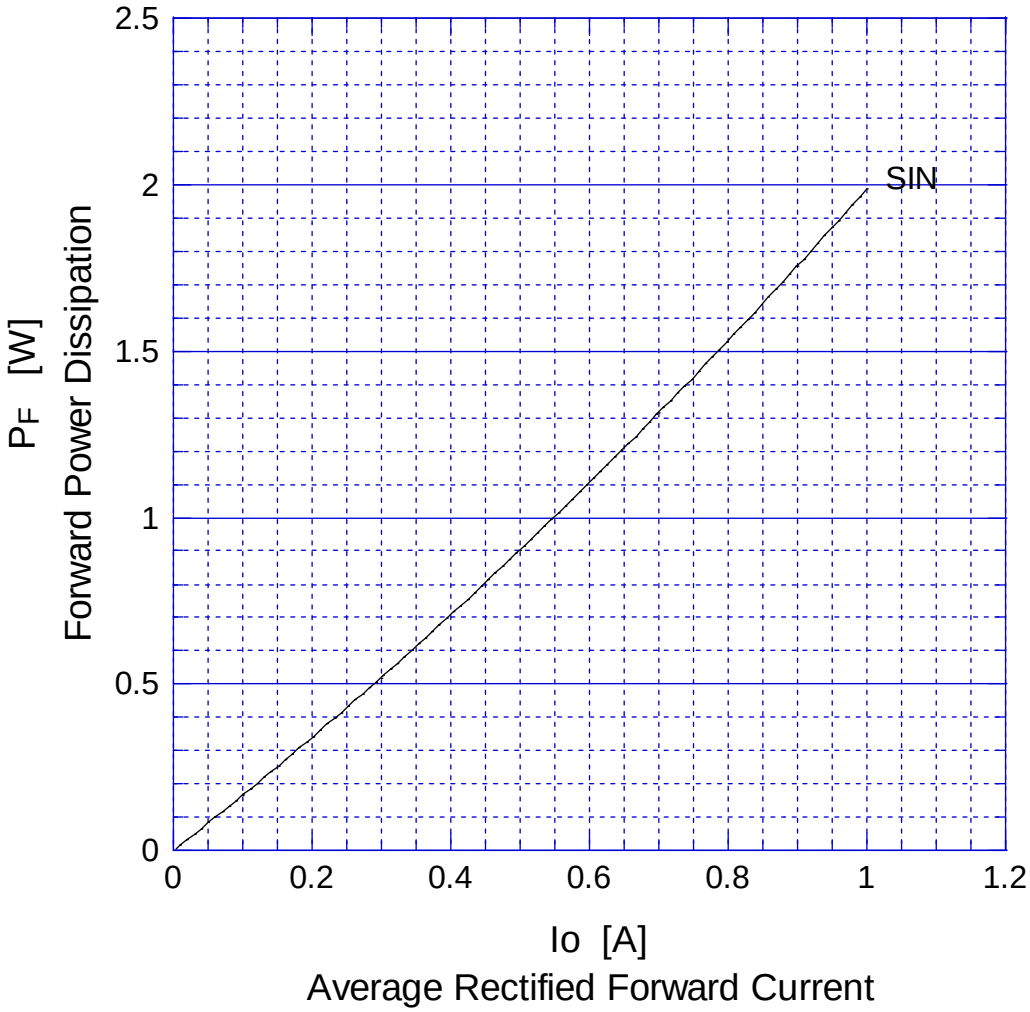
●Electrical Characteristics (If not specified Tl=25℃)

| Item | Symbol | Conditions | Ratings | Unit |
|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$=0.4A, Pulse measurement, Rating of per diode | Max 0.95 | V |
| Reverse Current | $I_R$ | $V_R$=800v, Pulse measurement, Rating of per diode | Max 10 | μA |
| Thermal Resistance | θjl | junction to lead | Max 25 | ℃/W |
| | θja | junction to ambient, On alumina substrate | Max 62.5 | |
| | | junction to ambient, On glass-epoxy substrate | Max 80 | |

# D1UBA80 Forward Voltage

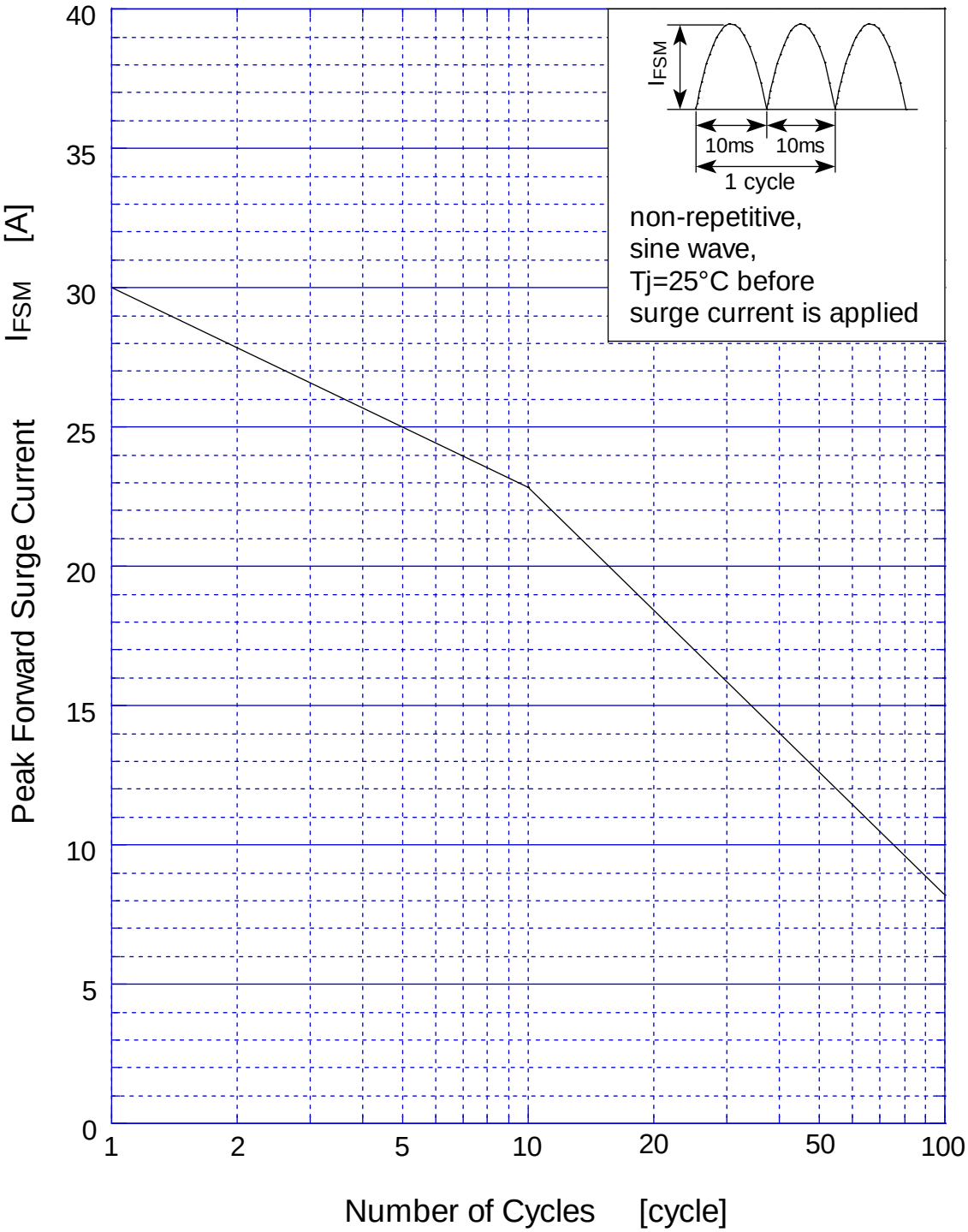


# D1UBA80 Forward Power Dissipation

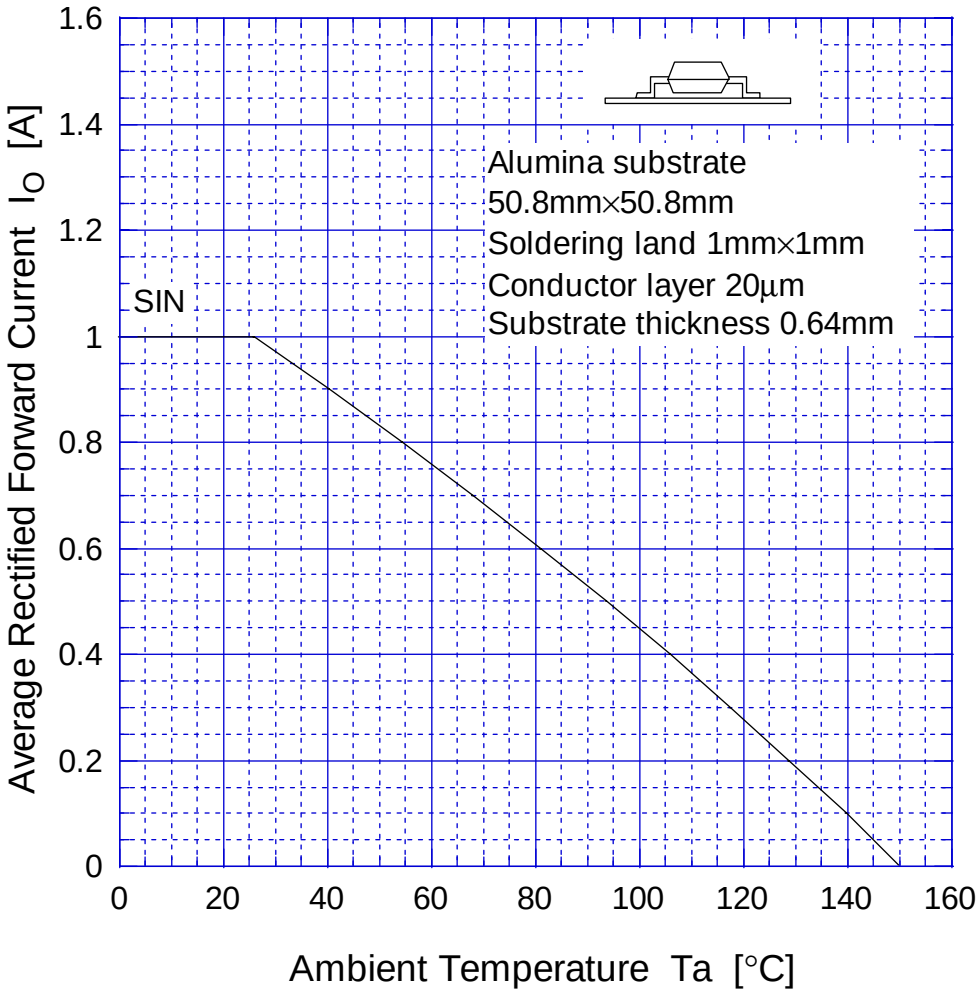



Tj =150°C

# D1UBA80 Peak Surge Forward Capability

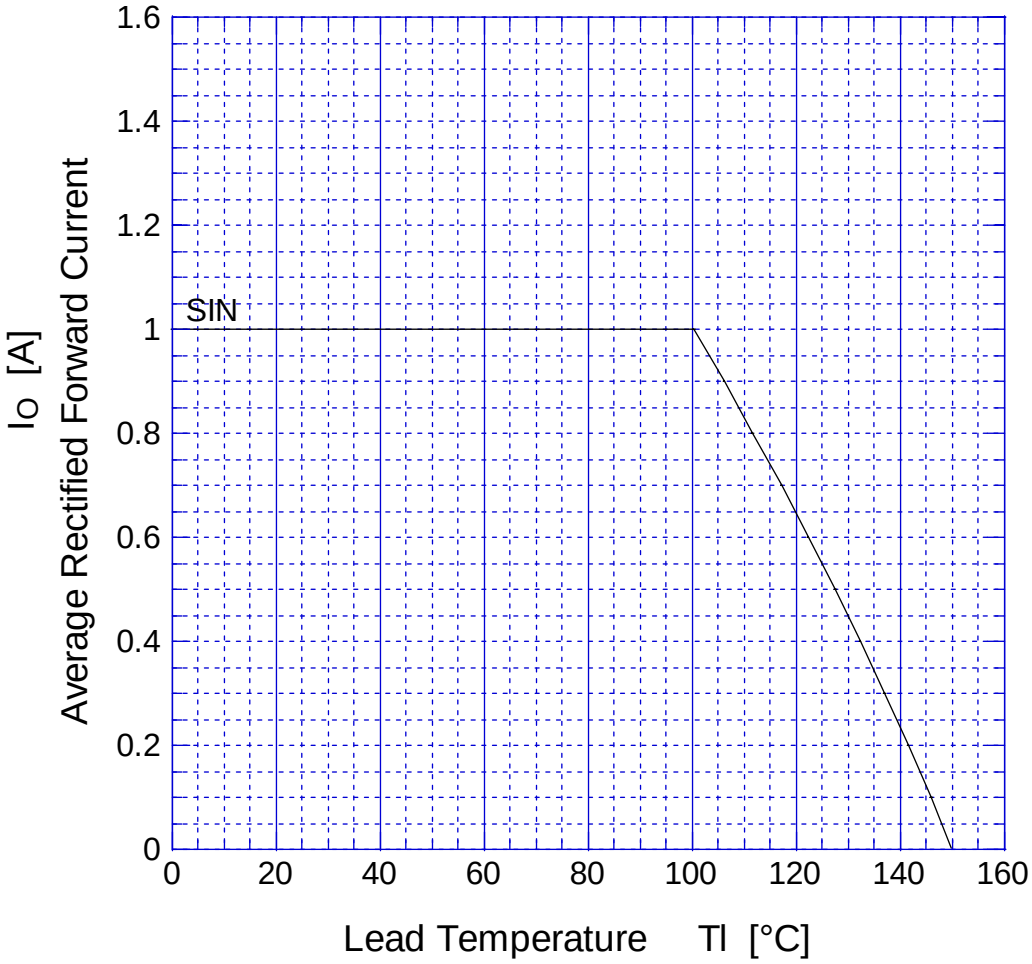


# D1UBA80 Derating Curve




$V_R = V_{RM}$

# D1UBA80 Derating Curve




$V_R = V_{RM}$