

# SHINDENGEN

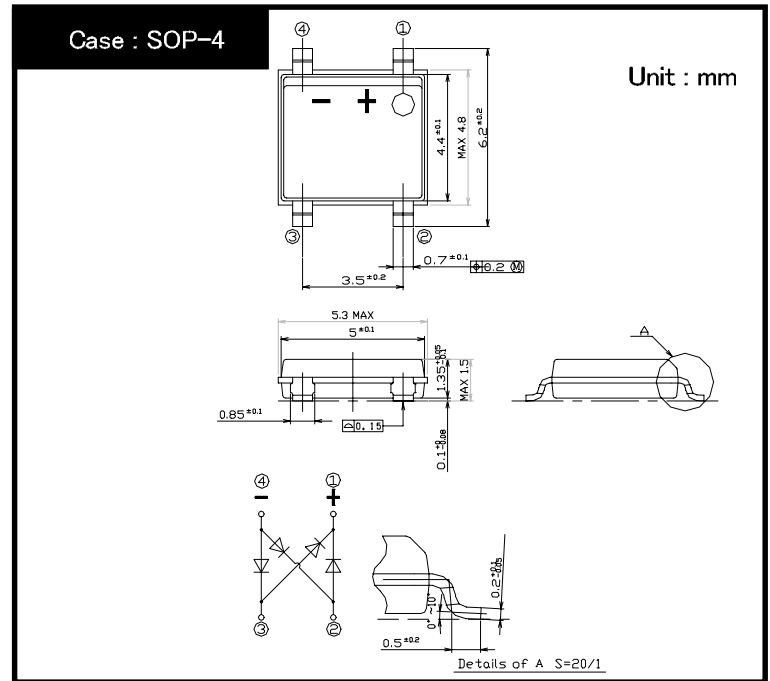
## General Purpose Rectifiers

SMT Bridges

# D1UB80

## 800V 1A

### OUTLINE DIMENSIONS



### RATINGS

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

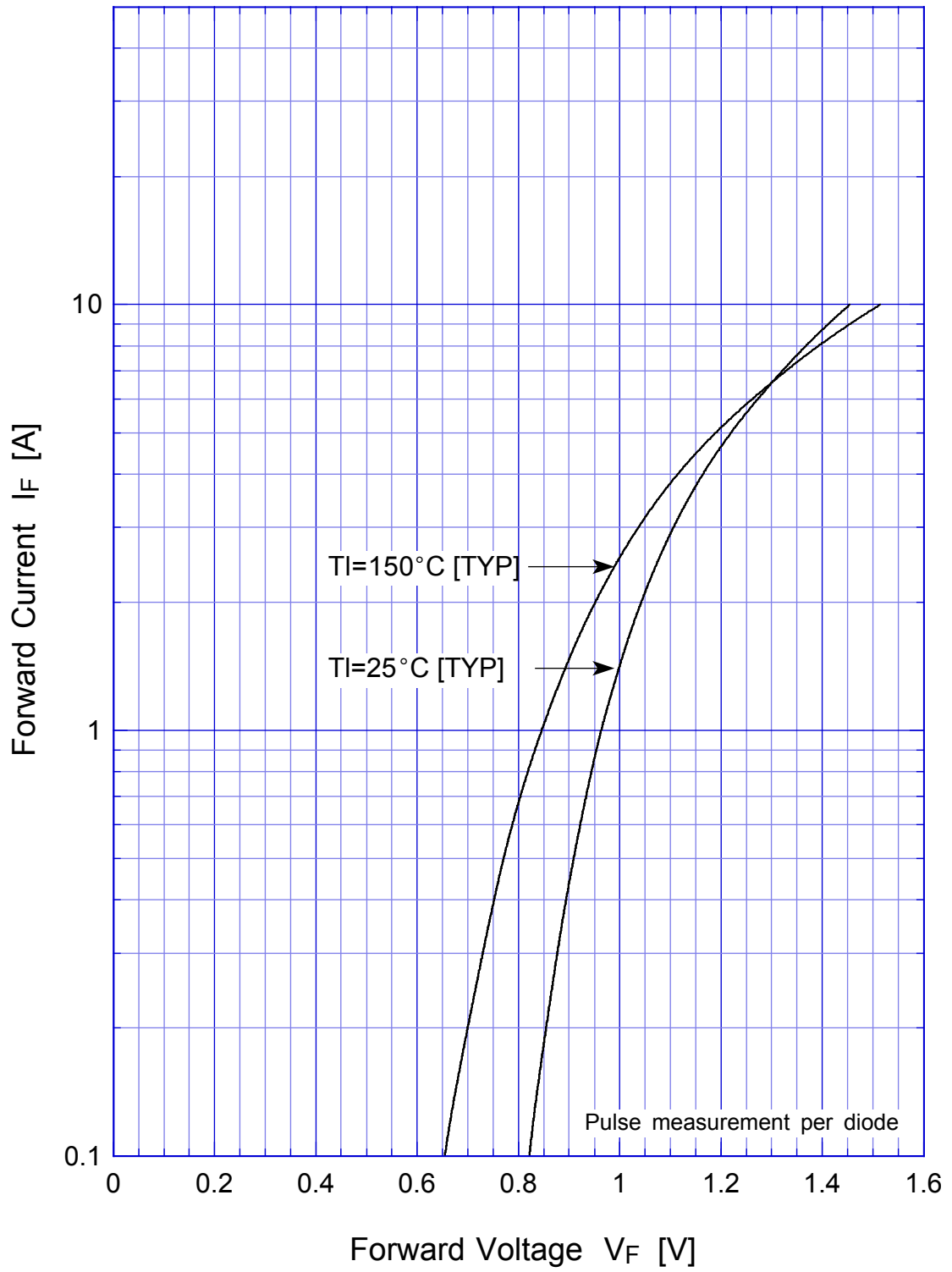
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-55~150	°C
Operating Junction Temperature	T <sub>j</sub>		150	°C
Maximum Reverse Voltage	V <sub>RM</sub>		800	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, T <sub>a</sub> =25°C	1	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> =25°C	30	A
Current Squared Time	I <sub>t</sub> <sup>2</sup>	1ms ≤ t < 10ms T <sub>j</sub> =25°C	3	A <sup>2</sup> s

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.4A, Pulse measurement, Rating of per diode	Max.0.95	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =800v, Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ <sub>jl</sub>	junction to lead Without heatsink	Max.25	°C/W
	θ <sub>ja</sub>	junction to ambient Without heatsink	Max.62.5	

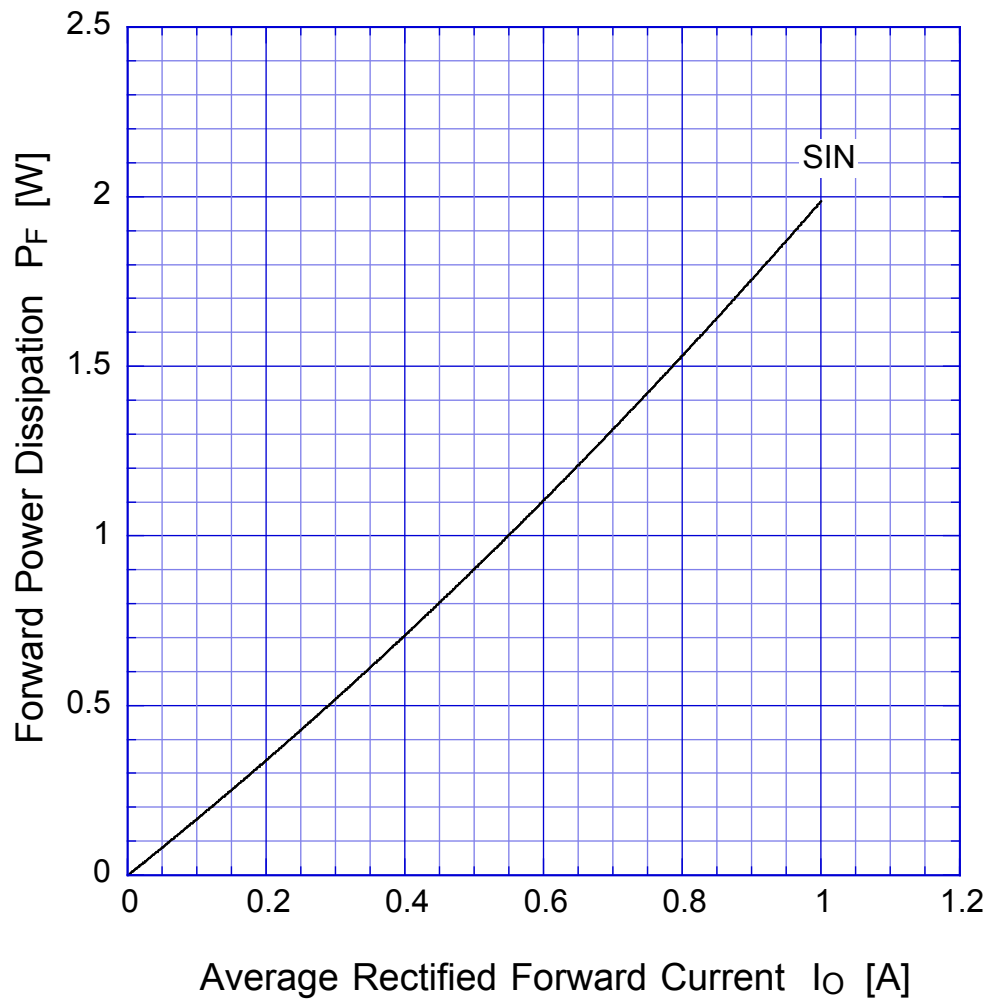
# D1UB80

## Forward Voltage



D1UB80

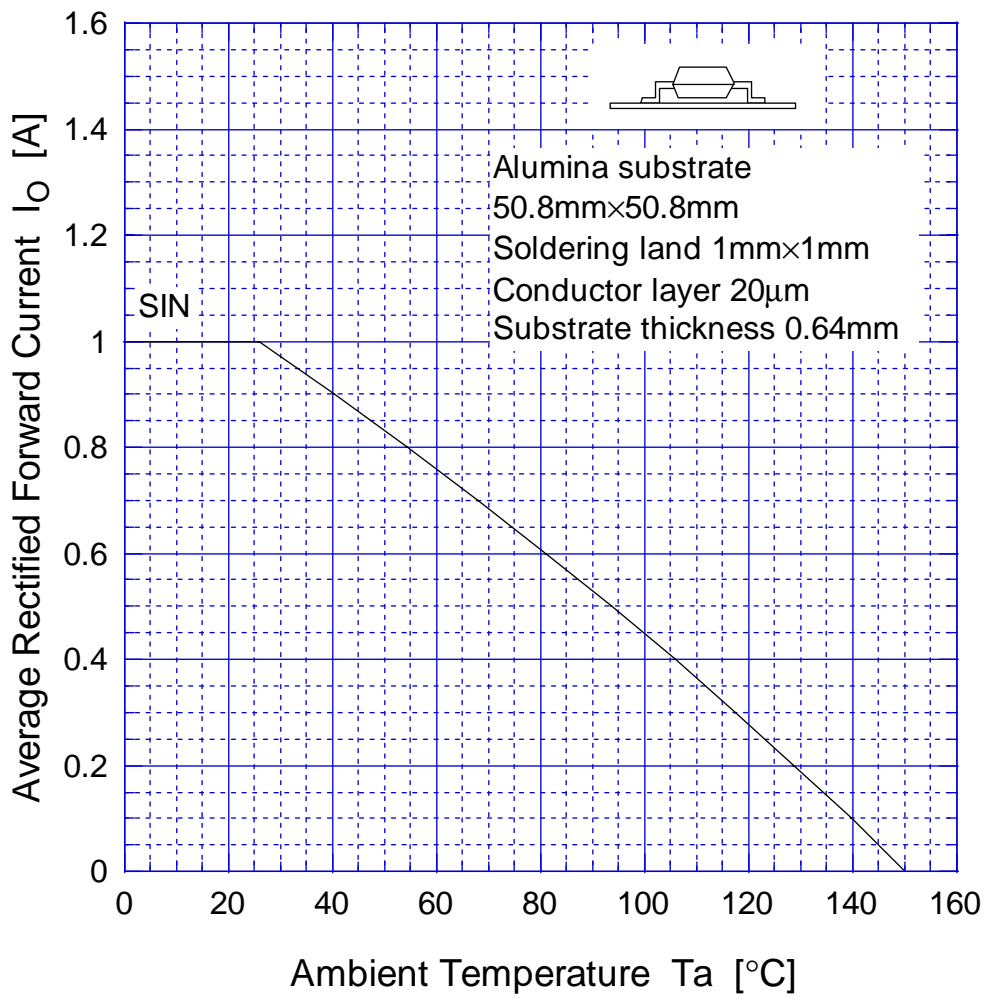
Forward Power Dissipation



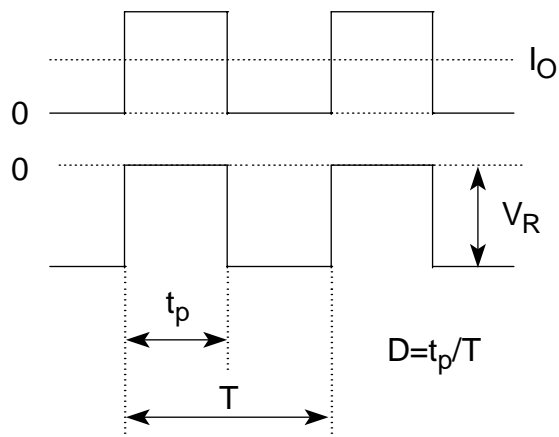
$T_j = 150^\circ\text{C}$   
Sine wave

# D1UB80

# Derating Curve

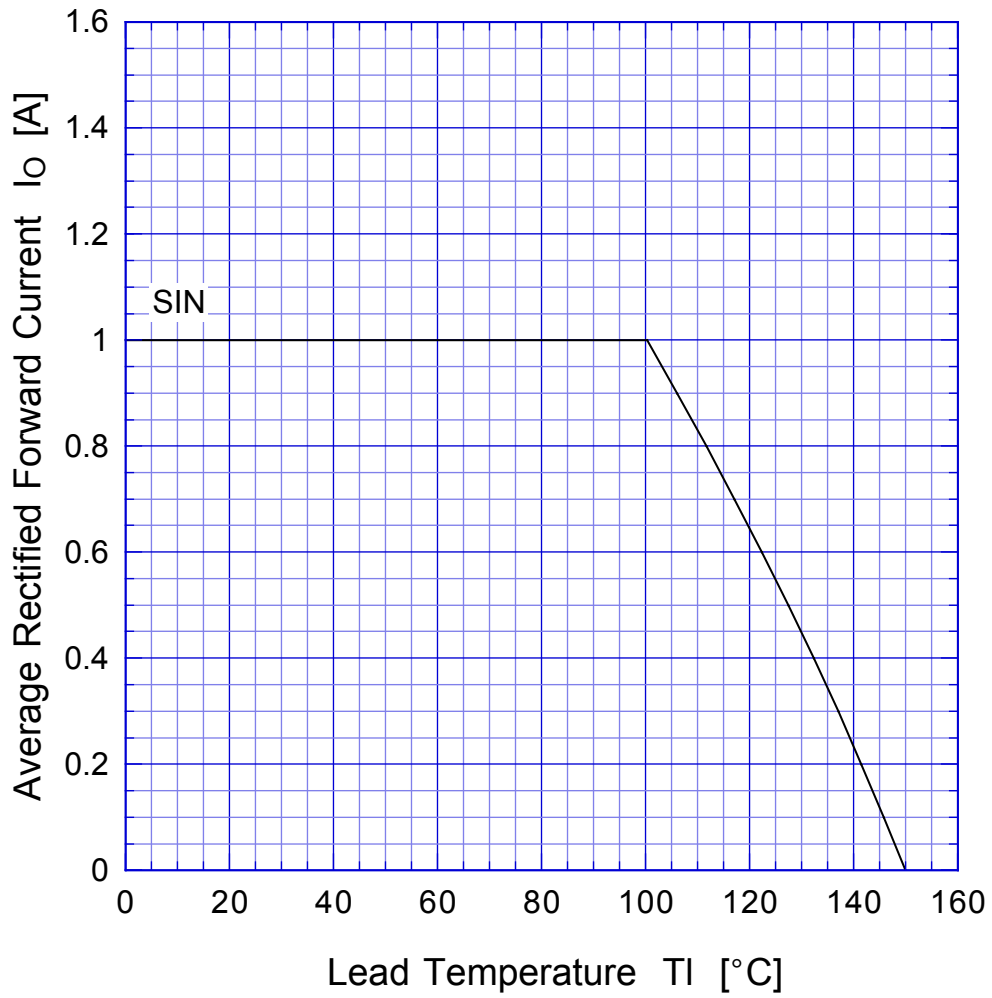


$$V_R = V_{RM}$$



# D1UB80

# Derating Curve



$$V_R = V_{RM}$$



# D1UB80

## Peak Surge Forward Capability

