SHINDENGEN

General Purpose Rectifiers

Single

S2V20

200V 1.7A

FEATURES

- High voltage
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

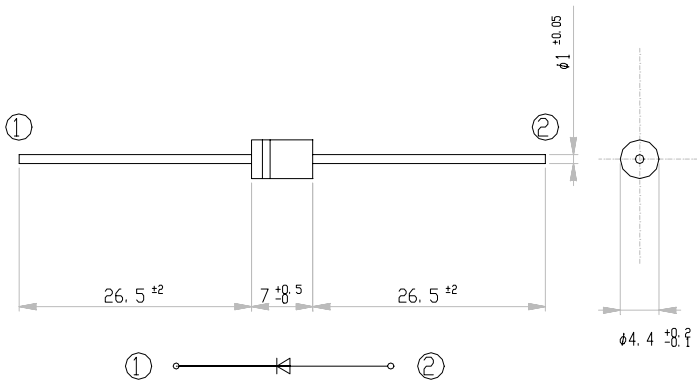
APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : AX10

Unit : mm



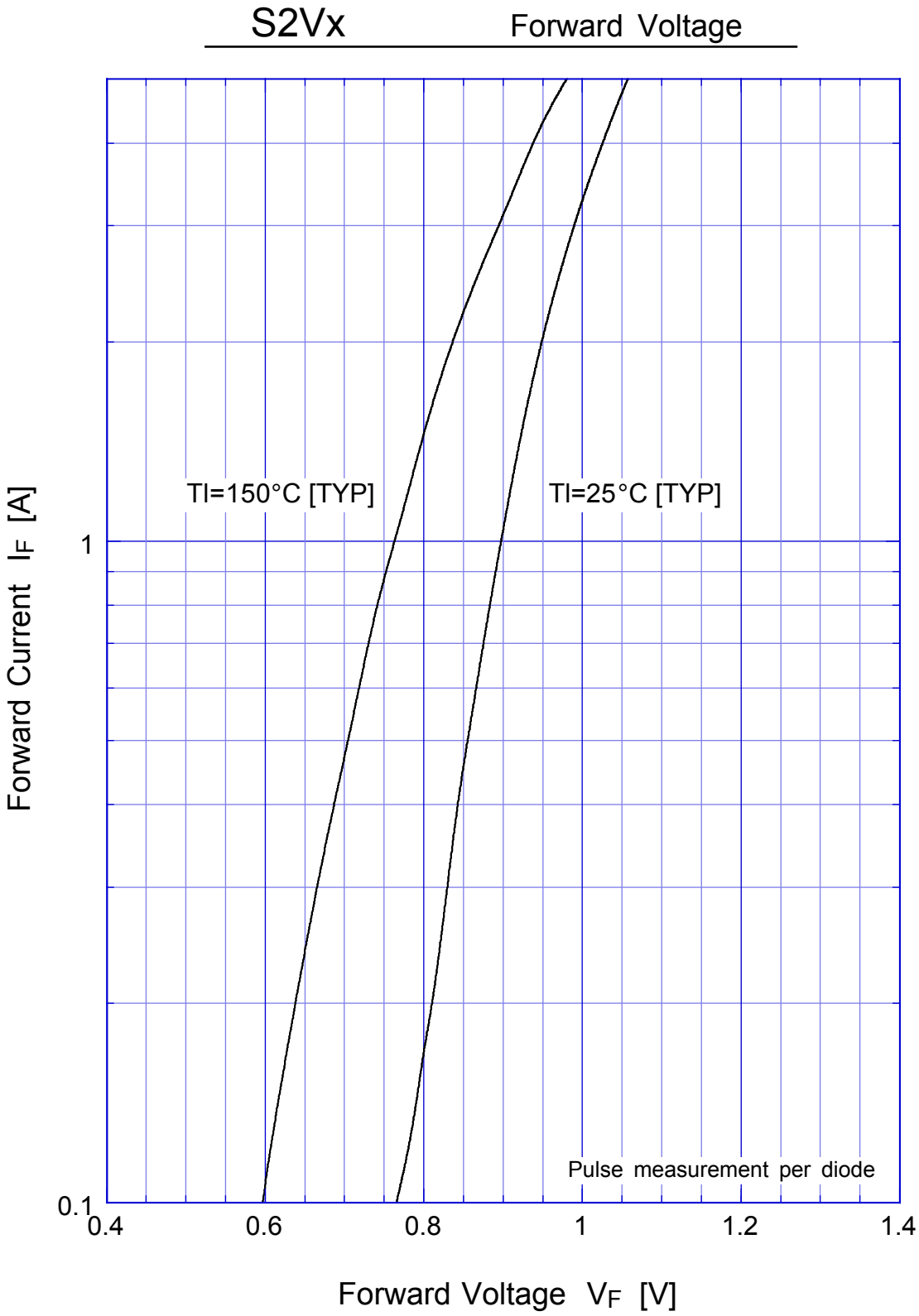
RATINGS

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

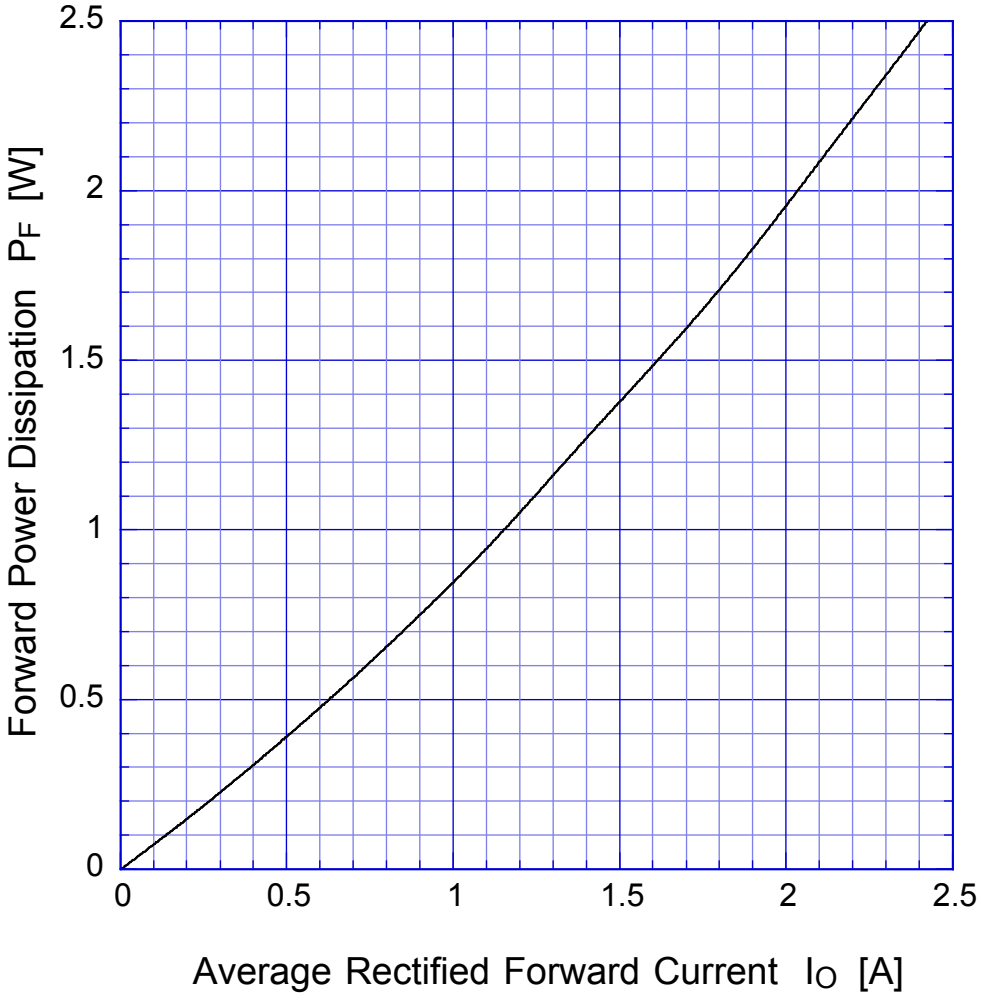
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−55～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, Ta=40℃	1.7	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25℃	60	A
Current Squared Time	I^2t	1ms≦t＜10ms Tj=25℃	20	A^2s

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

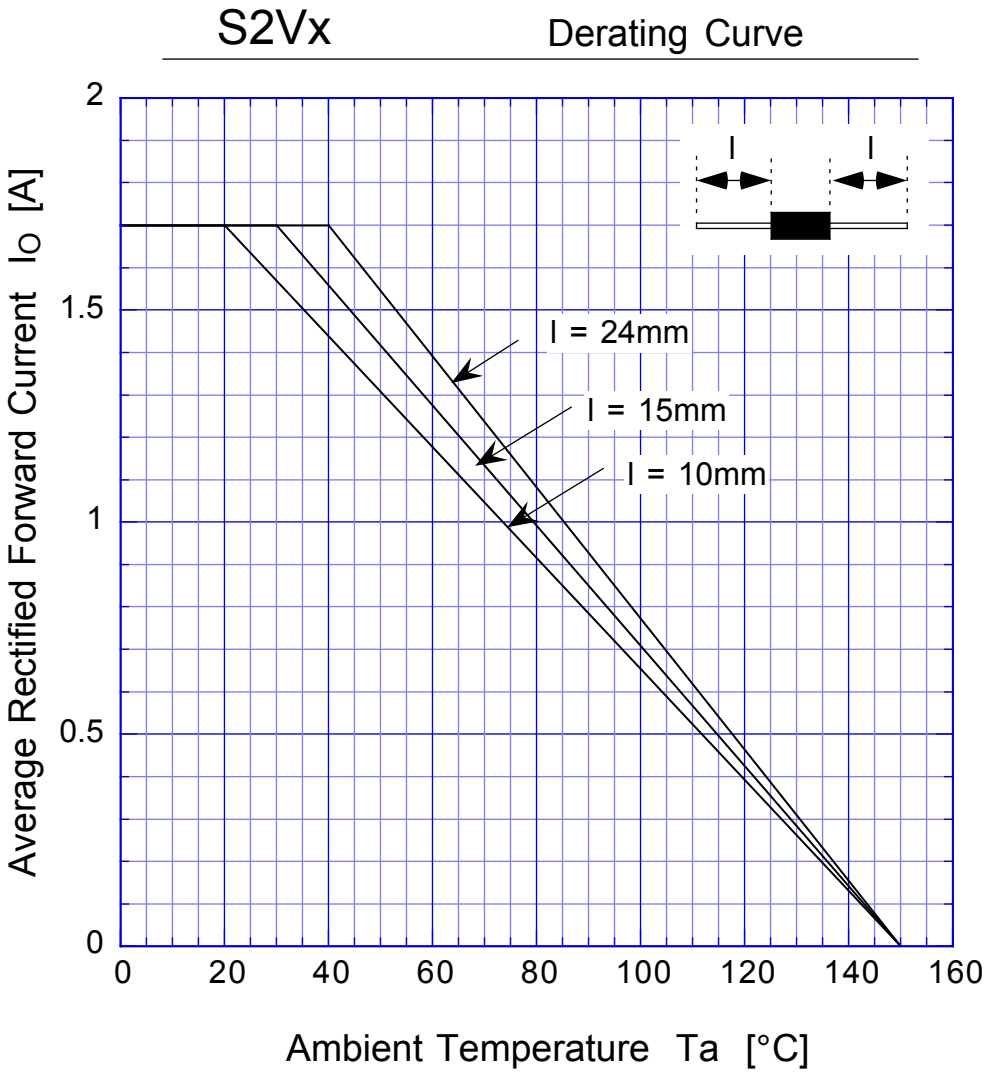
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=1.7A, Pulse measurement	Max.1.05	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Thermal Resistance	θjl	junction to lead	Max.8	℃/W


S2Vx
Forward Voltage
Tl=150°C [TYP]
Tl=25°C [TYP]
Pulse measurement per diode
Forward Current IF [A]
1
0.1
0.4
0.6
0.8
1
1.2
1.4
Forward Voltage VF [V]

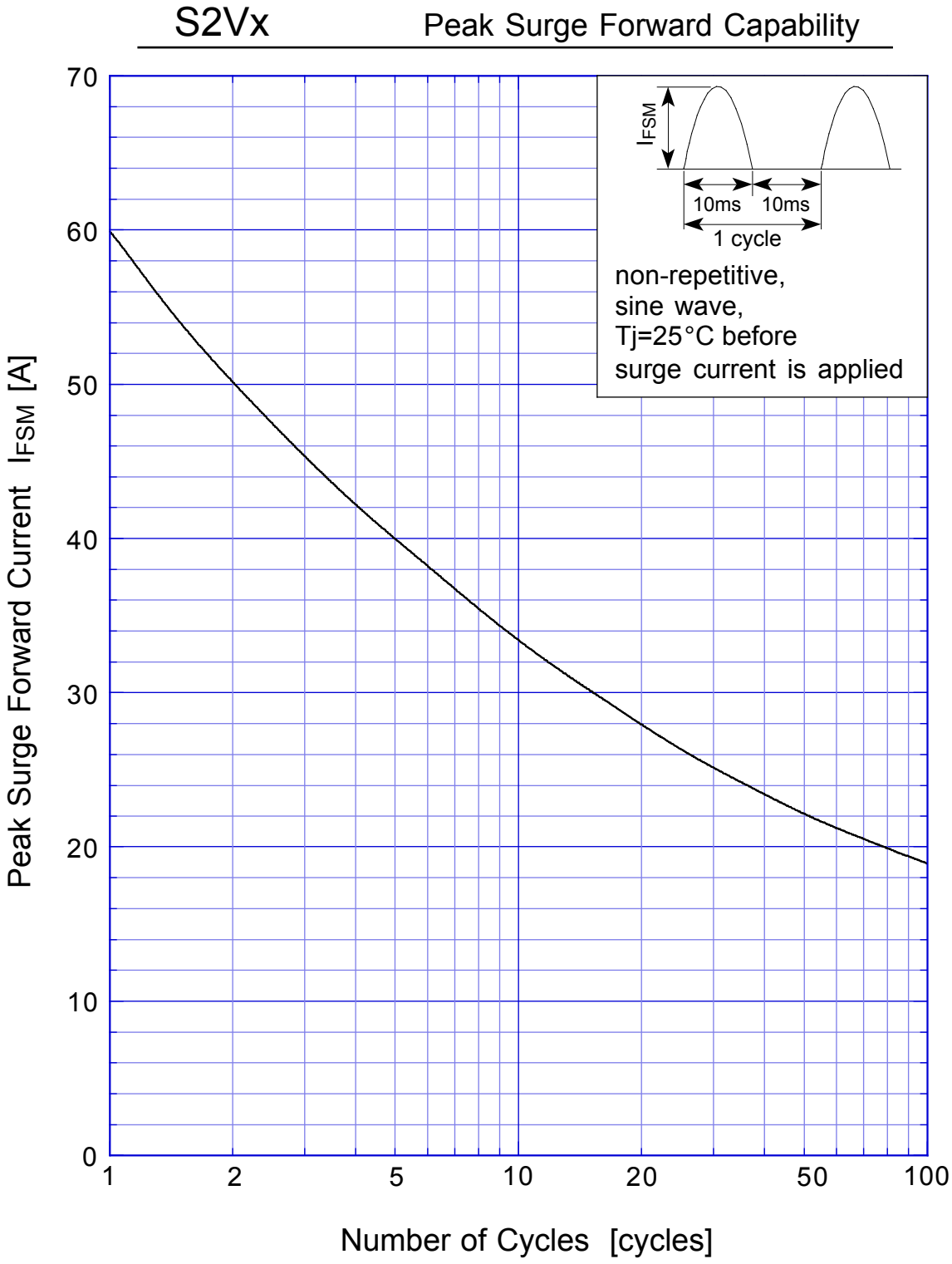
S2Vx Forward Power Dissipation



Tj = 150°C
Sine wave



Sine wave
R-load
Free in air


S2Vx
Peak Surge Forward Capability
70
60
50
40
30
20
10
0
1
2
5
10
20
50
100
Peak Surge Forward Current IFSM [A]
Number of Cycles [cycles]
IFSM
10ms
10ms
1 cycle
non-repetitive,
sine wave,
Tj=25°C before
surge current is applied

S2Vx Transient Thermal Impedance