SHINDENGEN

General Purpose Rectifiers

3 Phase Bridge Modules

S15VTA80

800V 15A

FEATURES

- ●Dual In-Line Package
- ●Compact 3 phase bridge
- ● High IFSM
- ● Applicable to mount on glass-epoxy substrate (VTA type)

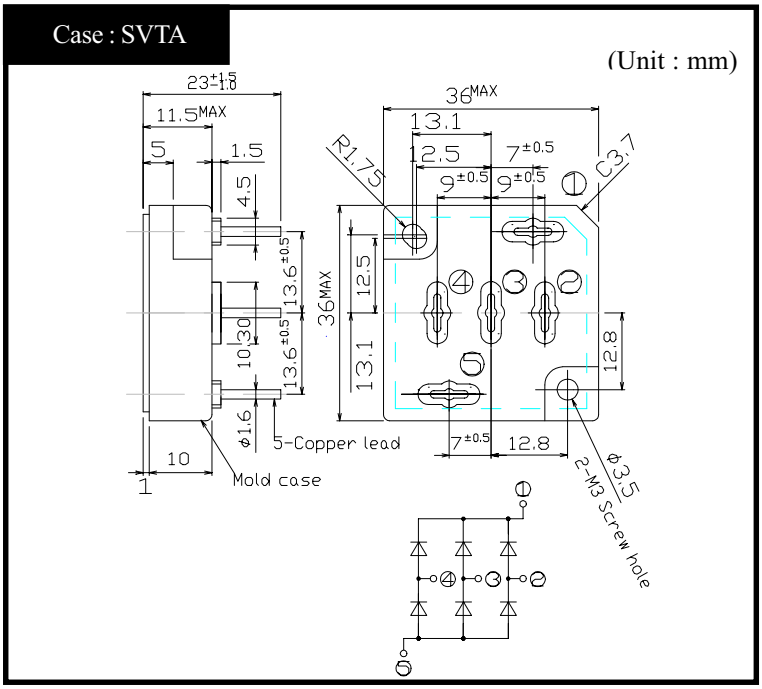
APPLICATION

- ●Big Power Supply
- ●Air conditioner
- ●Factory Automation, Inverter

OUTLINE DIMENSIONS

Case : SVTA

(Unit : mm)



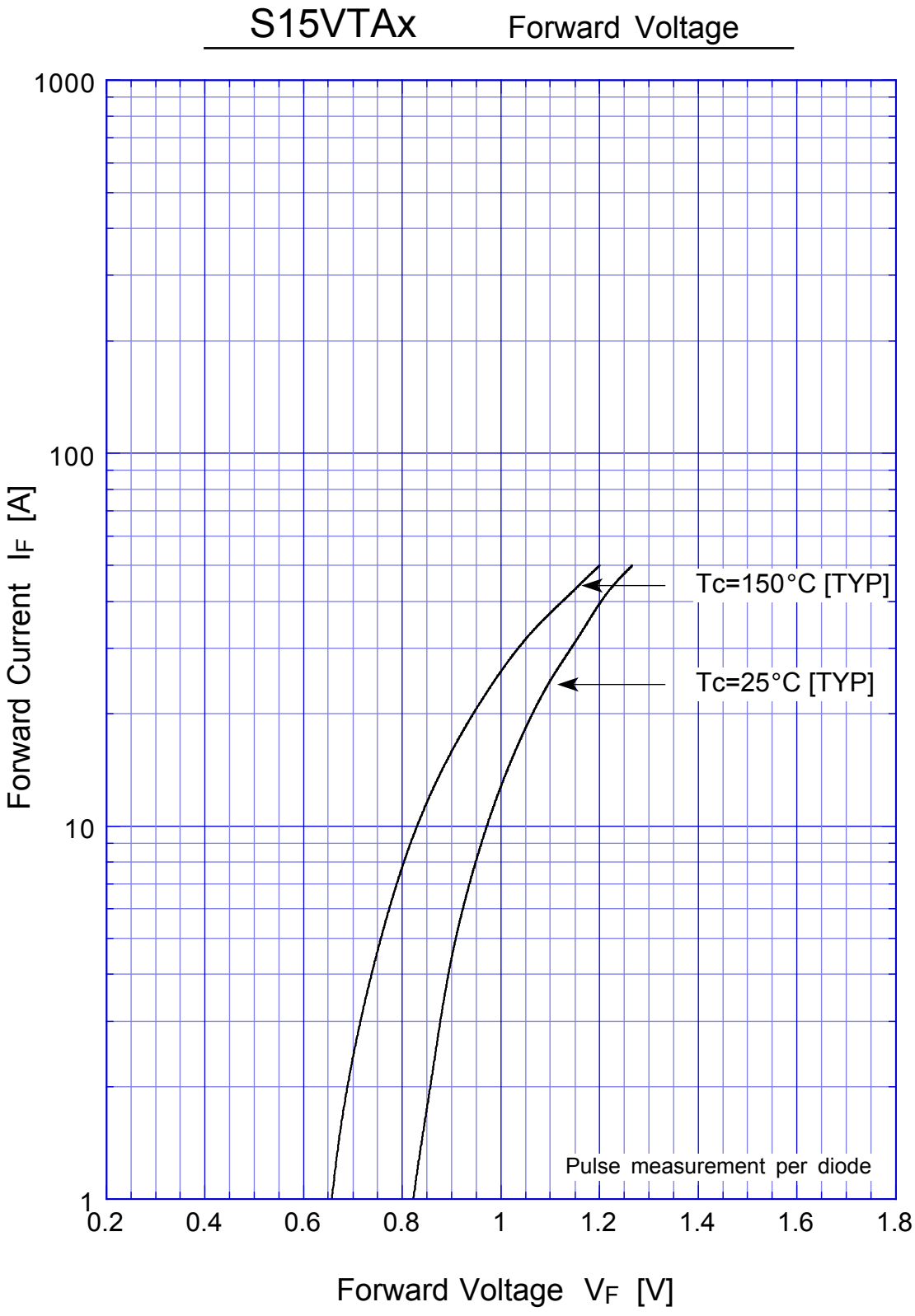
RATINGS

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

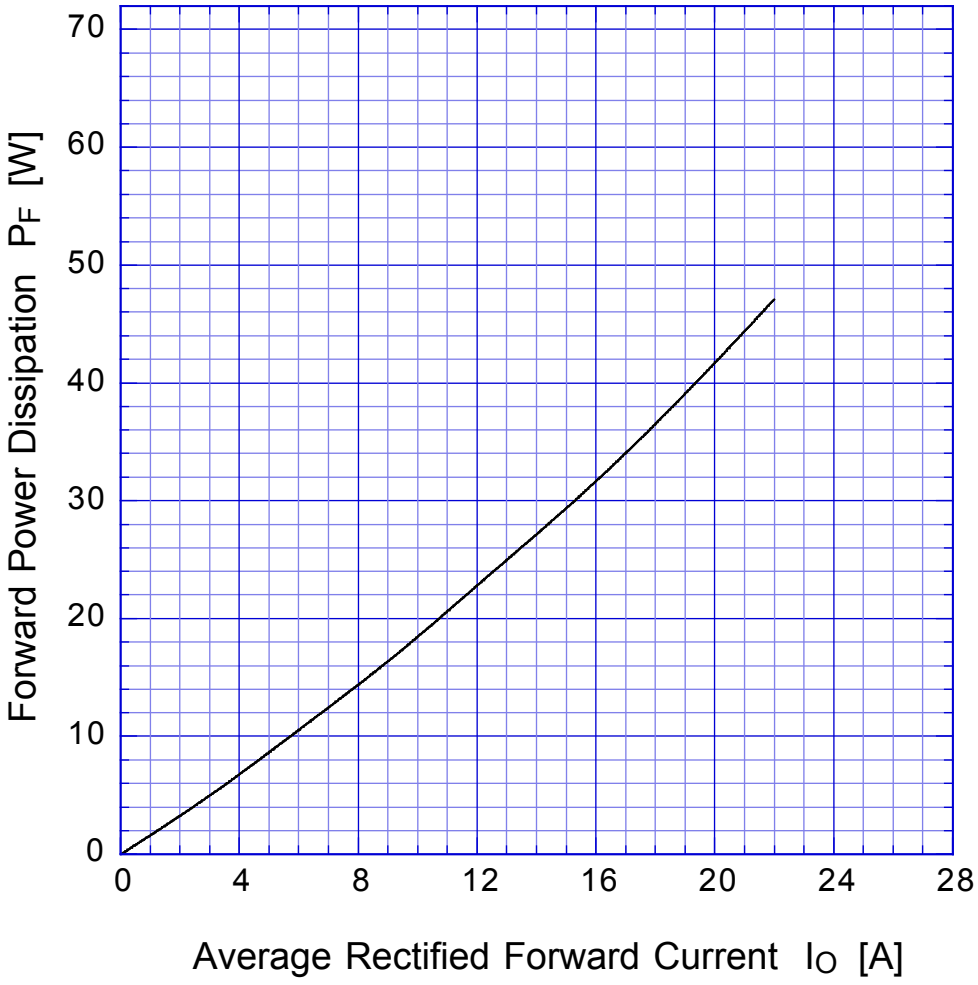
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		800	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, With heatsink, Tc=132℃	15	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm, Tj=25℃	200	A
Current Squared Time	I^2t	1ms≦t＜10ms T j=25℃	160	A^2s
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.6N･m)	0.8	N･m

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=5A, Pulse measurement, Rating of per arm	Max.1.05	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per arm	Max.10	μA
Thermal Resistance	θjc	junction to case	Max.0.6	℃/W

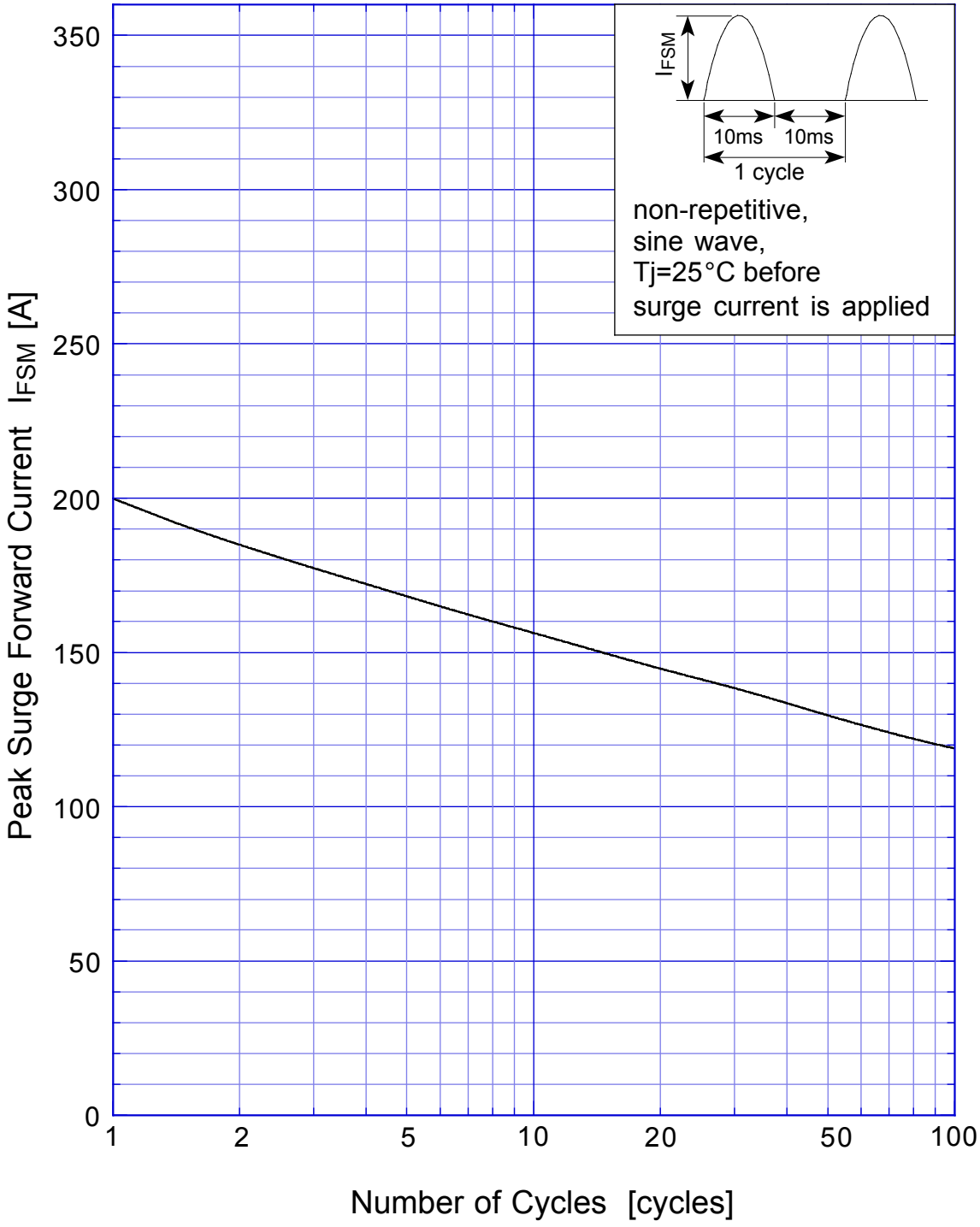

S15VTAx
Forward Voltage
1000
100
10
1
Forward Current IF [A]
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Forward Voltage VF [V]
Tc=150°C [TYP]
Tc=25°C [TYP]
Pulse measurement per diode

S15VTAx Forward Power Dissipation

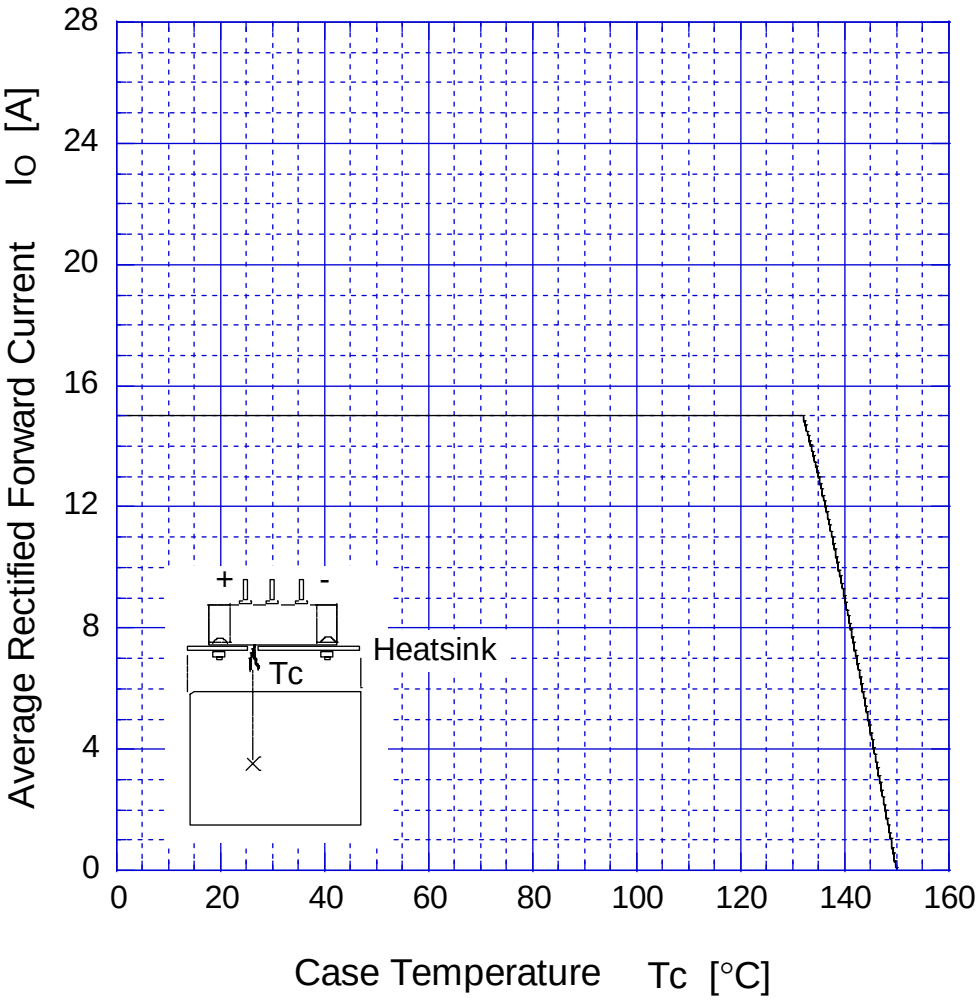


Tj= 150°C
Sine wave

S15VTAx Peak Surge Forward Capability



S15VTA80 Derating Curve



sine wave
R-load
with heatsink