SHINDENGEN

General Purpose Rectifiers

3 Phase Bridge Modules

S10VTA60

600V 10A

FEATURES

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

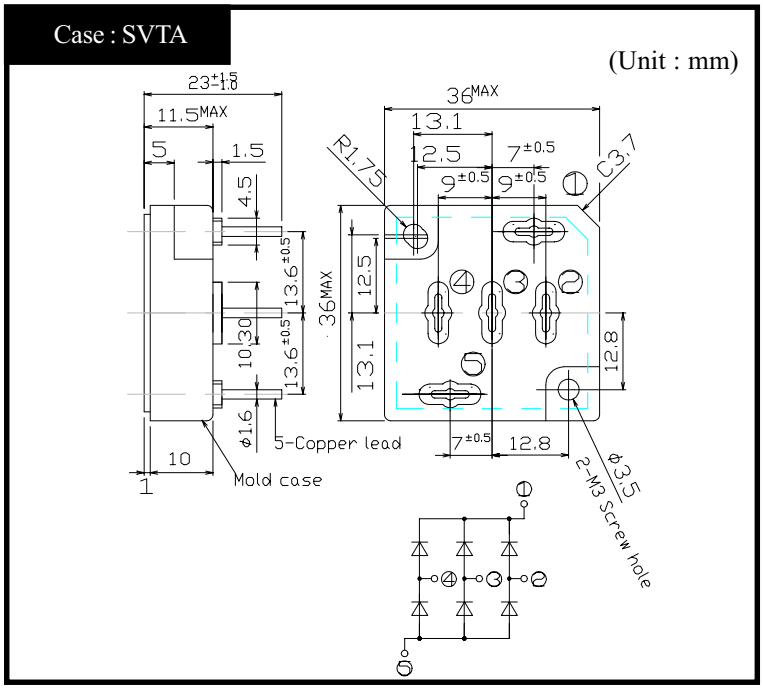
APPLICATION

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

OUTLINE DIMENSIONS

Case : SVTA

(Unit : mm)



RATINGS

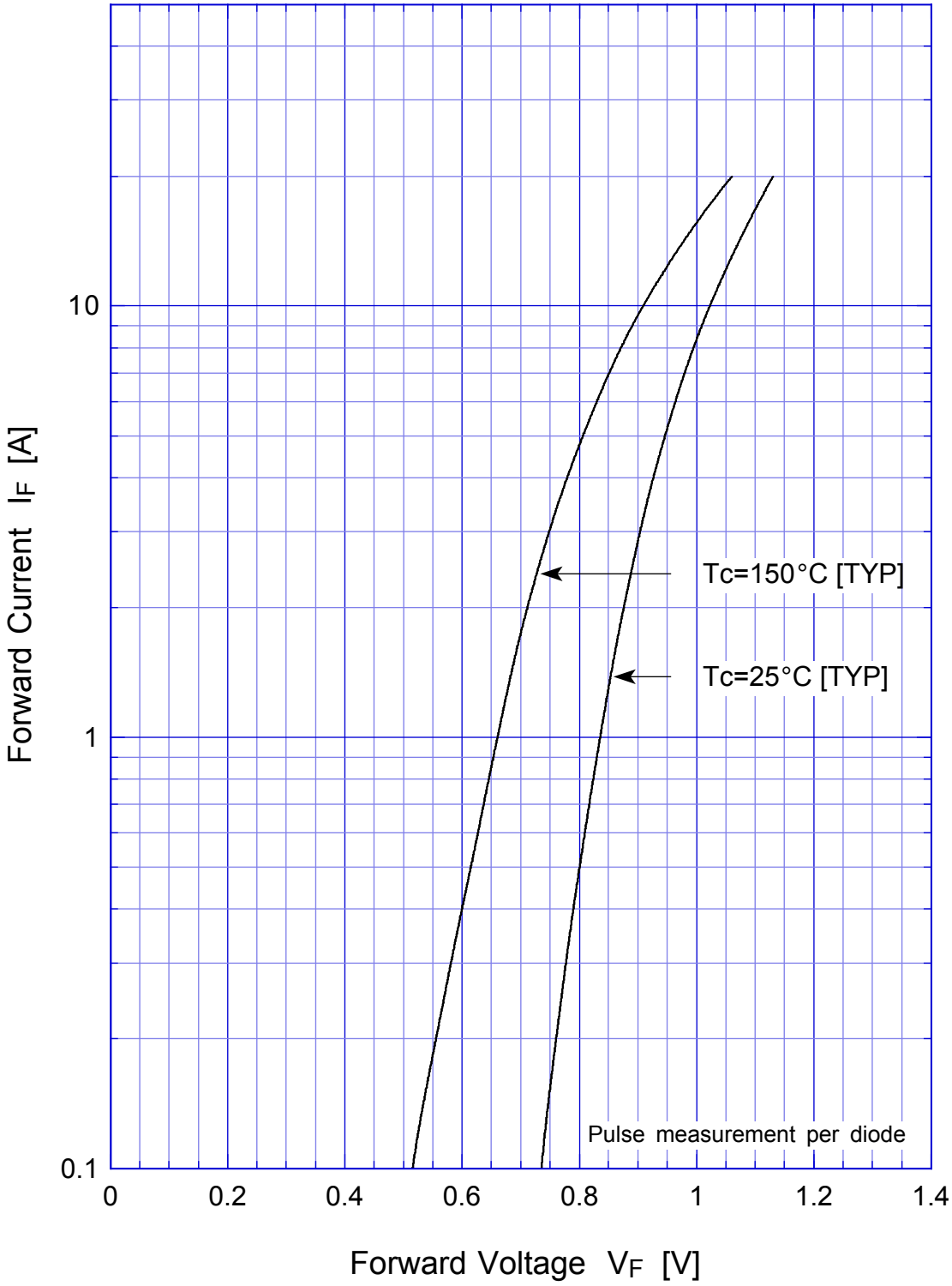
● Absolute Maximum Ratings (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, With heatsink, Tc=137℃	10	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm, Tj=25℃	170	A
Current Squared Time	I^2t	2ms≦t＜10ms Tj=25℃	140	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

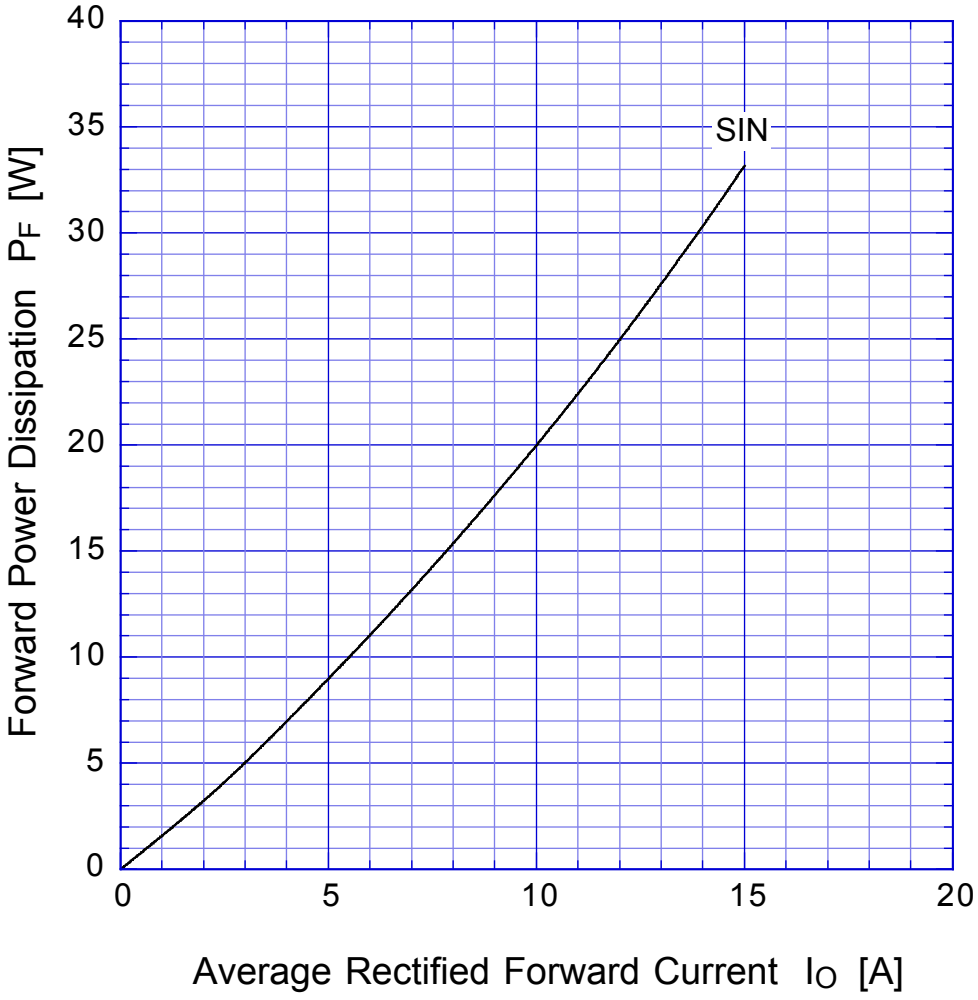
● Electrical Characteristics (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=3.5A, 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.0.65	℃/W

S10VTA60 Forward Voltage

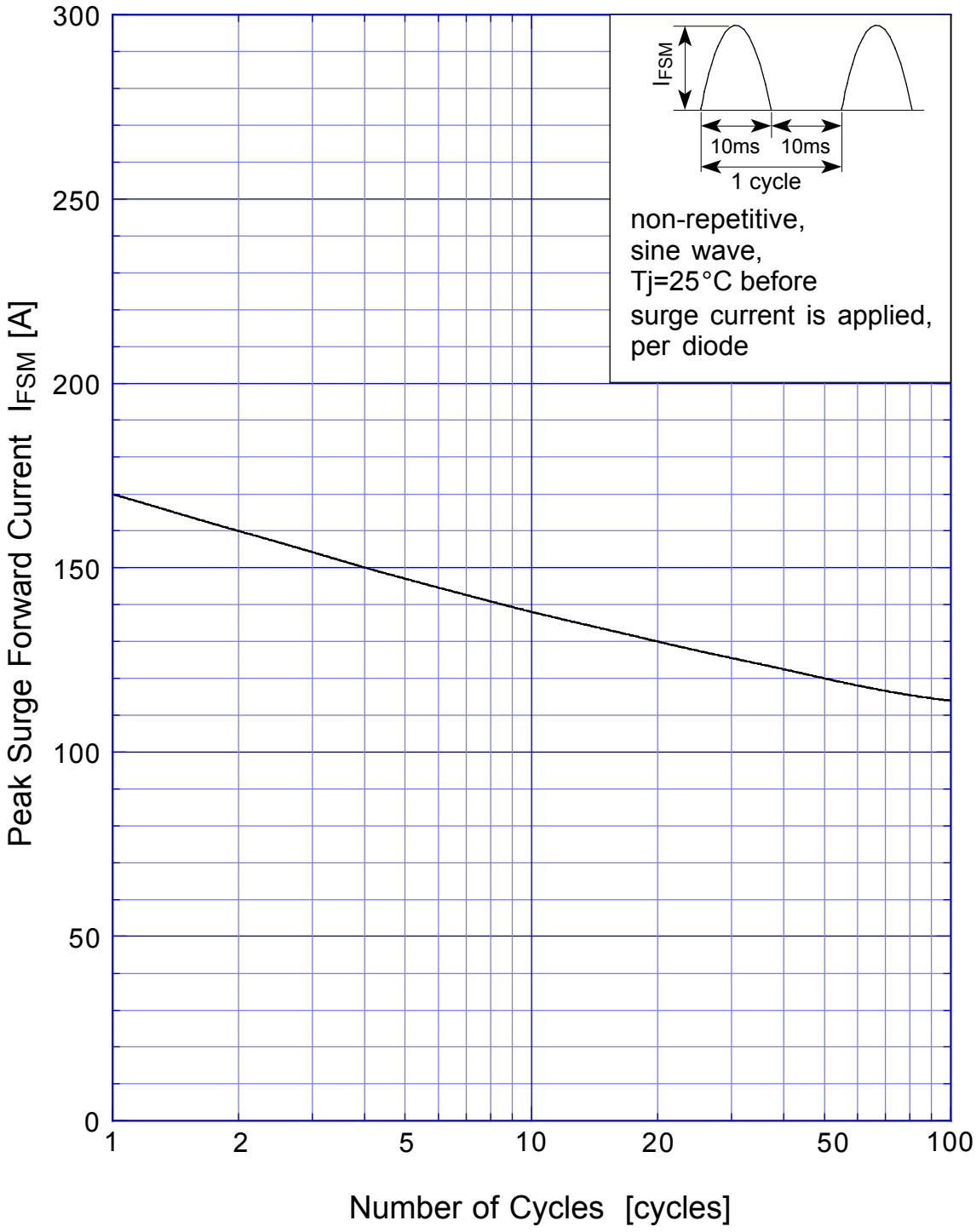


S10VTA60 Forward Power Dissipation

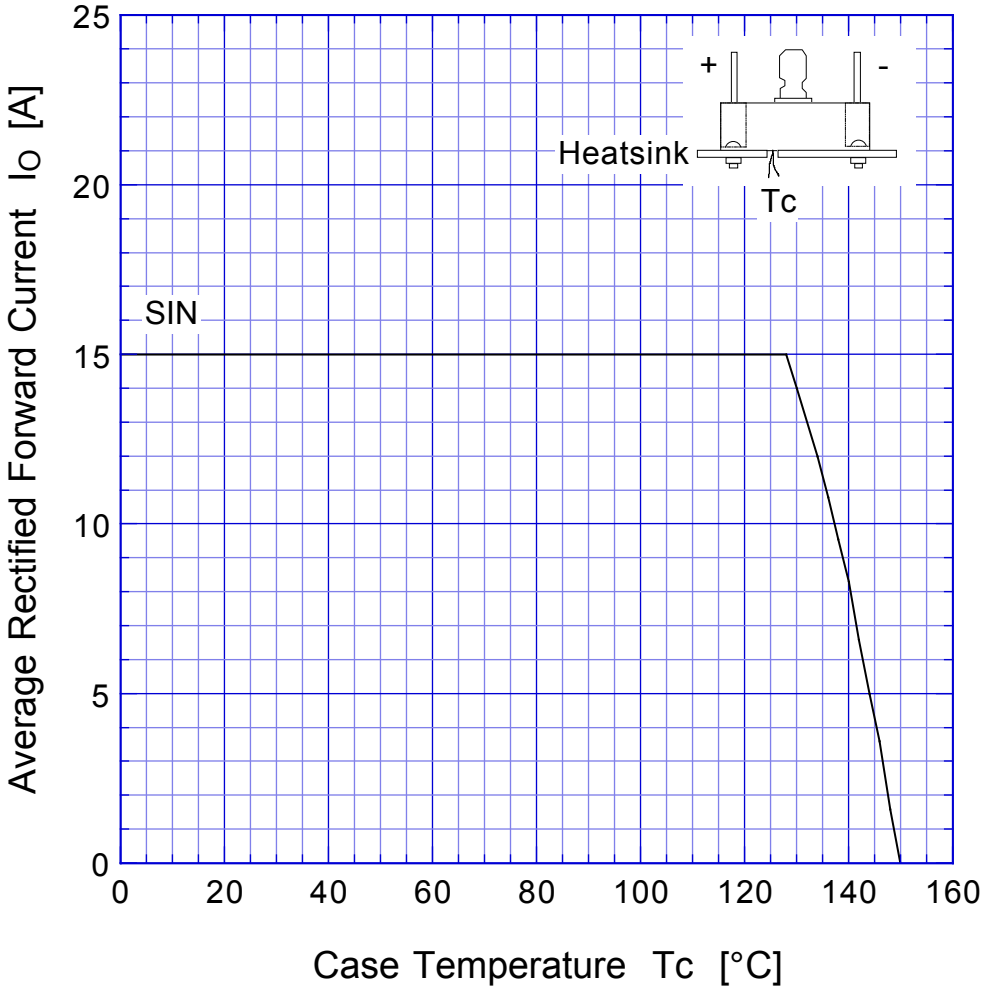


Tj = 150°C
Sine wave

S10VTA60 Peak Surge Forward Capability



S10VTA60 Derating Curve



$V_R = V_{RM}$
Sine wave
R-load
with heatsink