

SHINDENGEN

General Purpose Rectifiers

3 Phase Bridge Modules

S10VT60

600V 10A

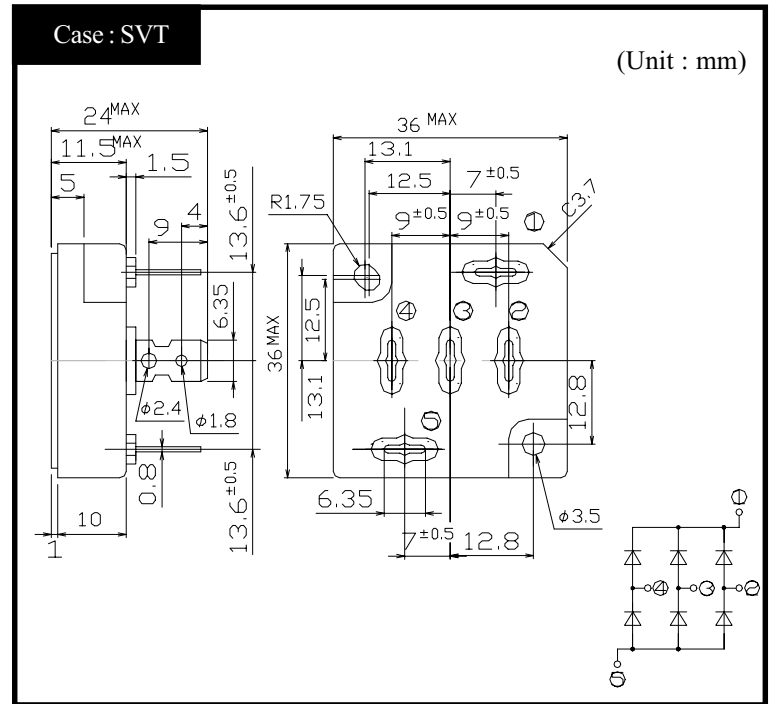
FEATURES

- 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



RATINGS

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

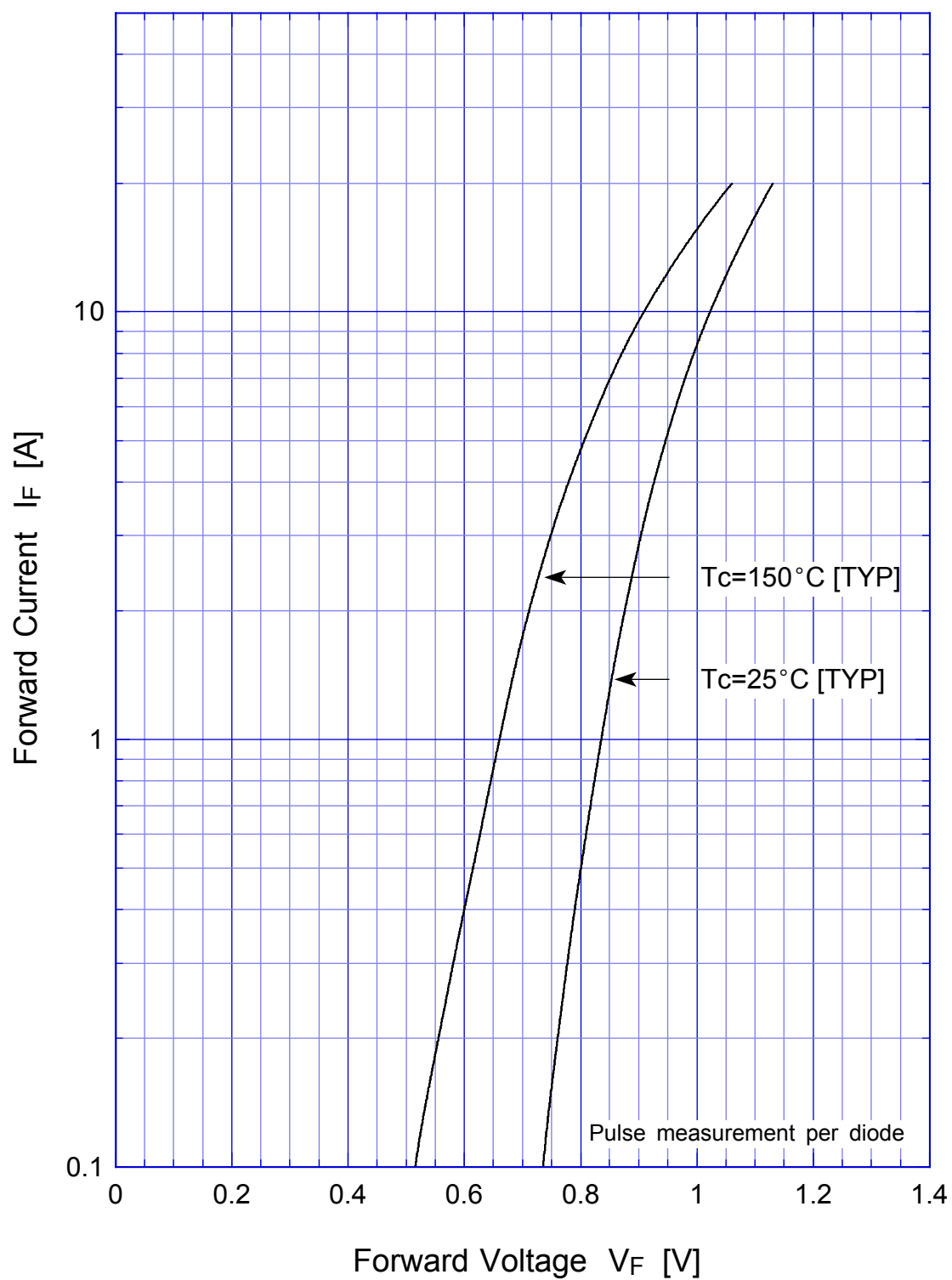
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, With heatsink, Tc=137°C	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm, Tj=25°C	170	A
Current Squared Time	I ² t	1ms ≤ t < 10ms Tj=25°C	110	A ² s
Dielectric Strength	V _{dis}	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°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =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	θ _{jc}	junction to case	Max.0.65	°C/W

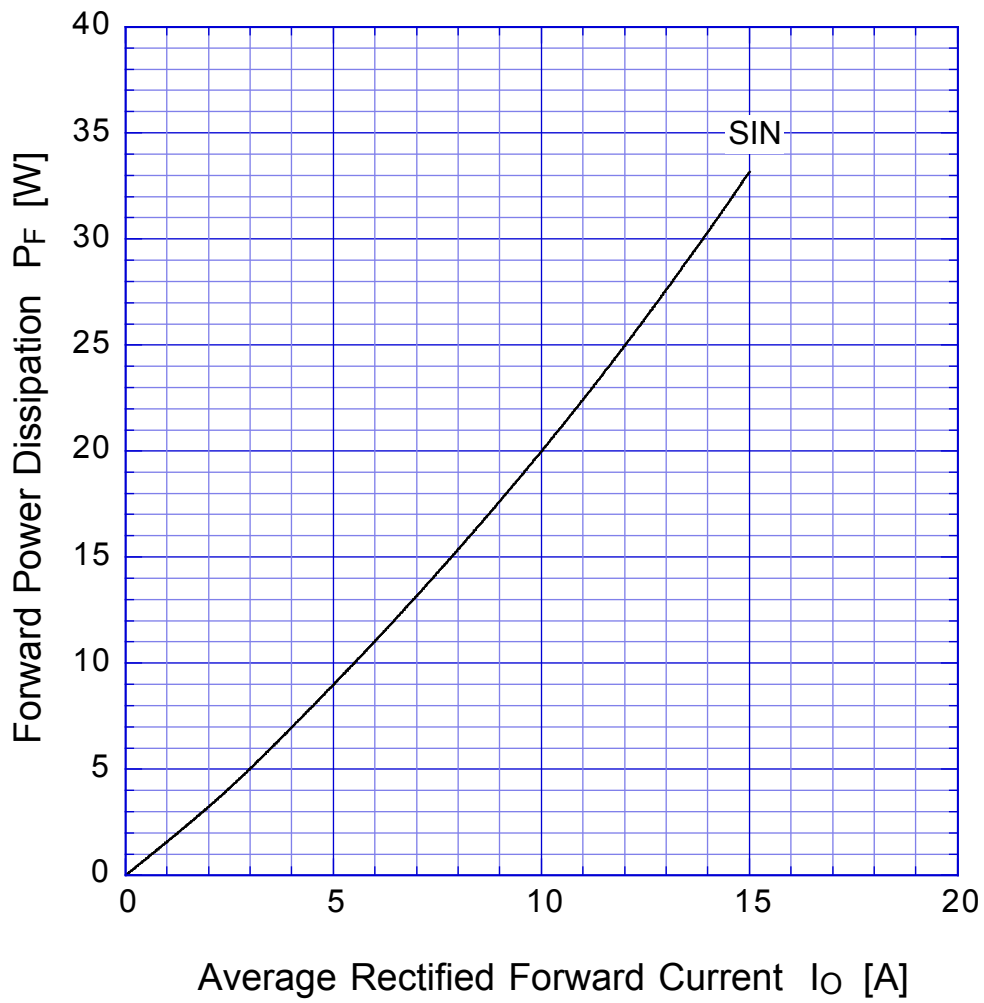
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Forward Voltage



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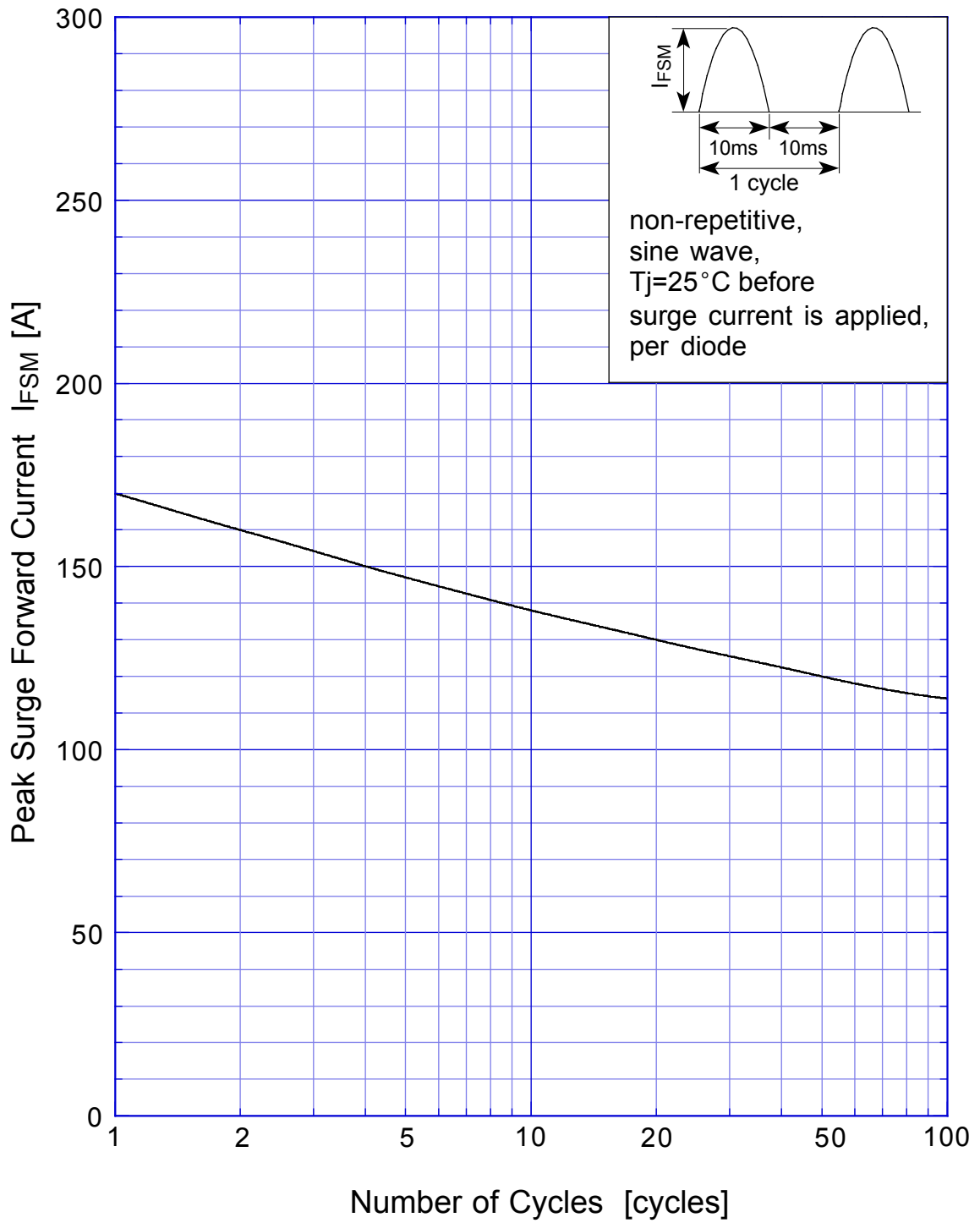
Forward Power Dissipation



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

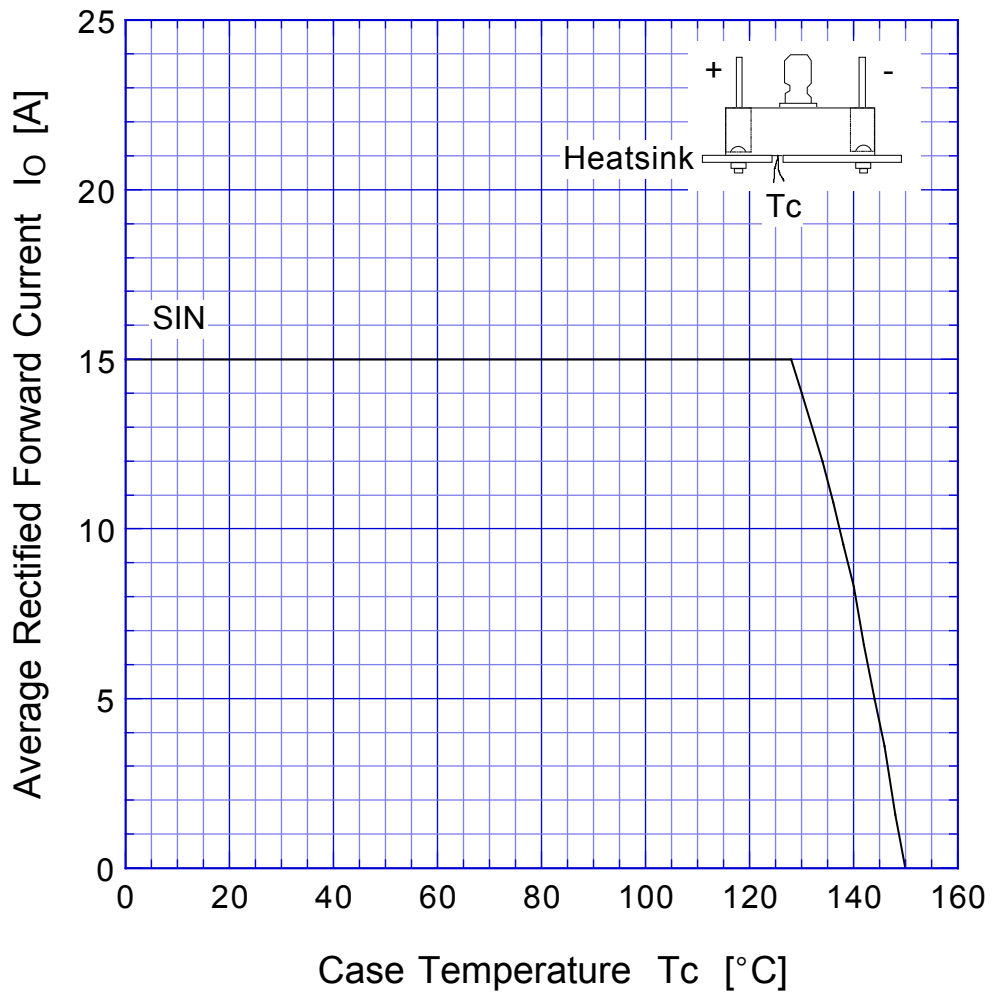
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Peak Surge Forward Capability



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Derating Curve



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