

S30VTA160

1600V 30A

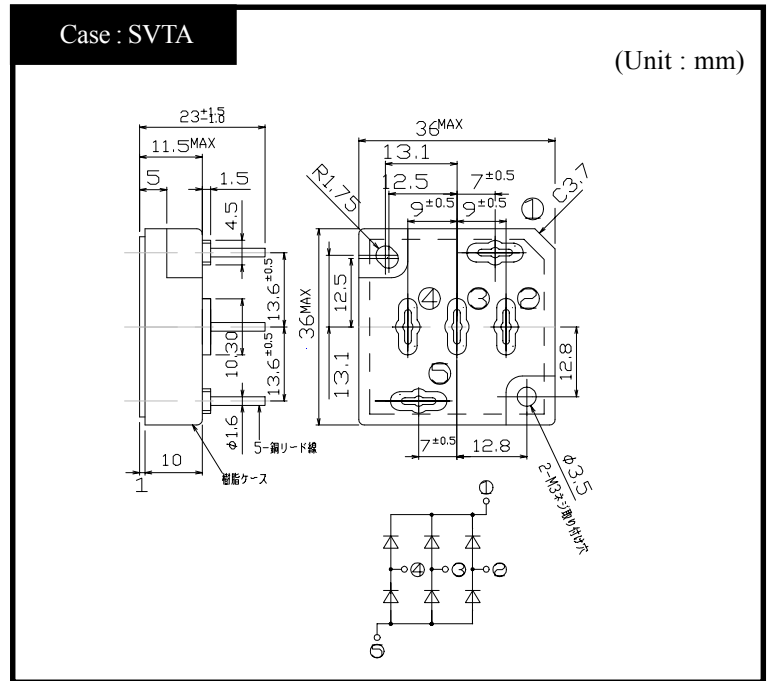
FEATURES

- Dual In-Line Package
- Compact 3 phase bridge
- High IFSM
- Applicable to mount on glass-epoxy substrate

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

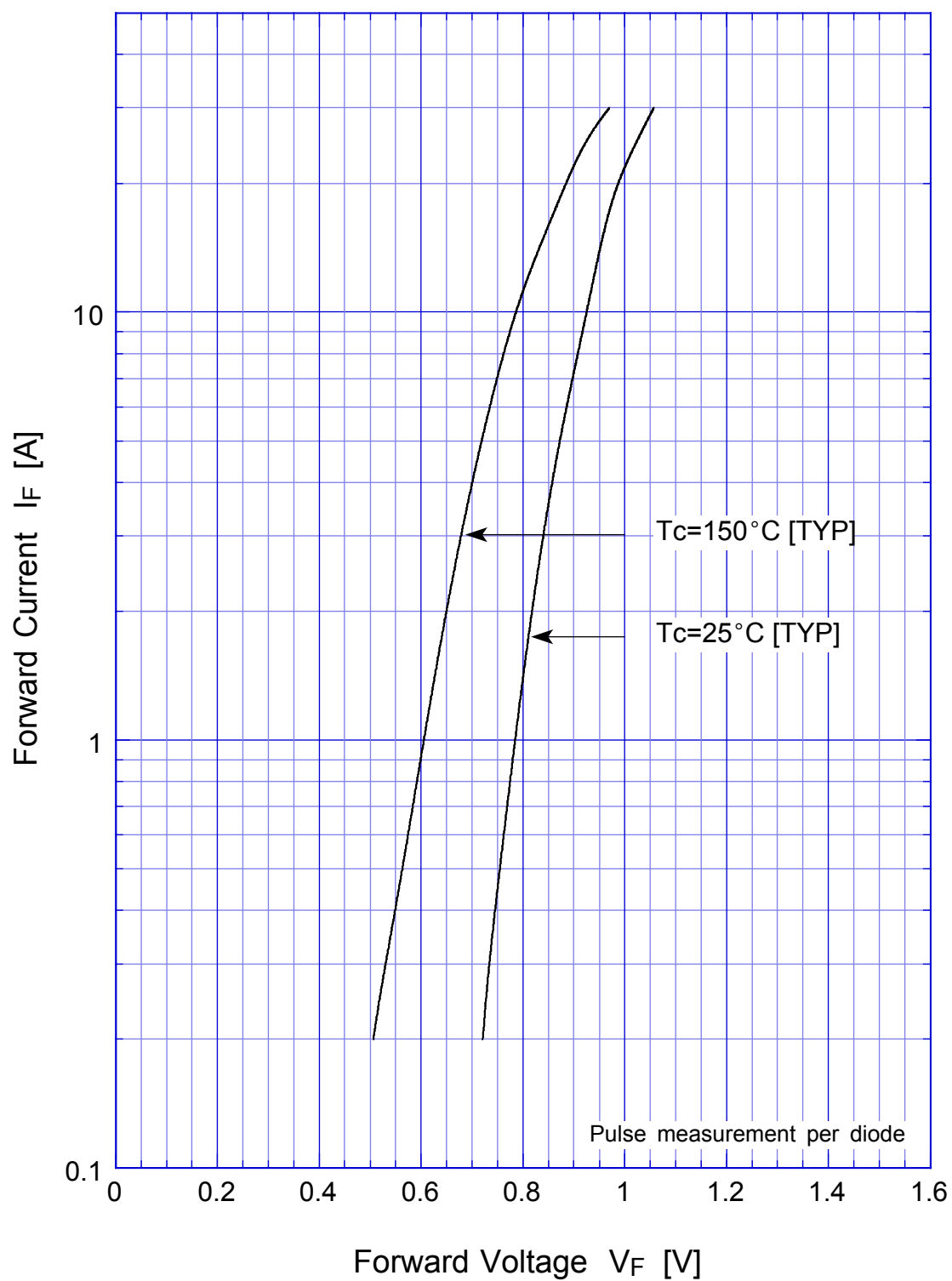
- Absolute Maximum Ratings (If not specified T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-40~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		1600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink T _c =116°C	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per diode T _j =25°C	350	A
Current Squared Time	I ² t	1ms ≤ t < 10ms T _c =25°C	200	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

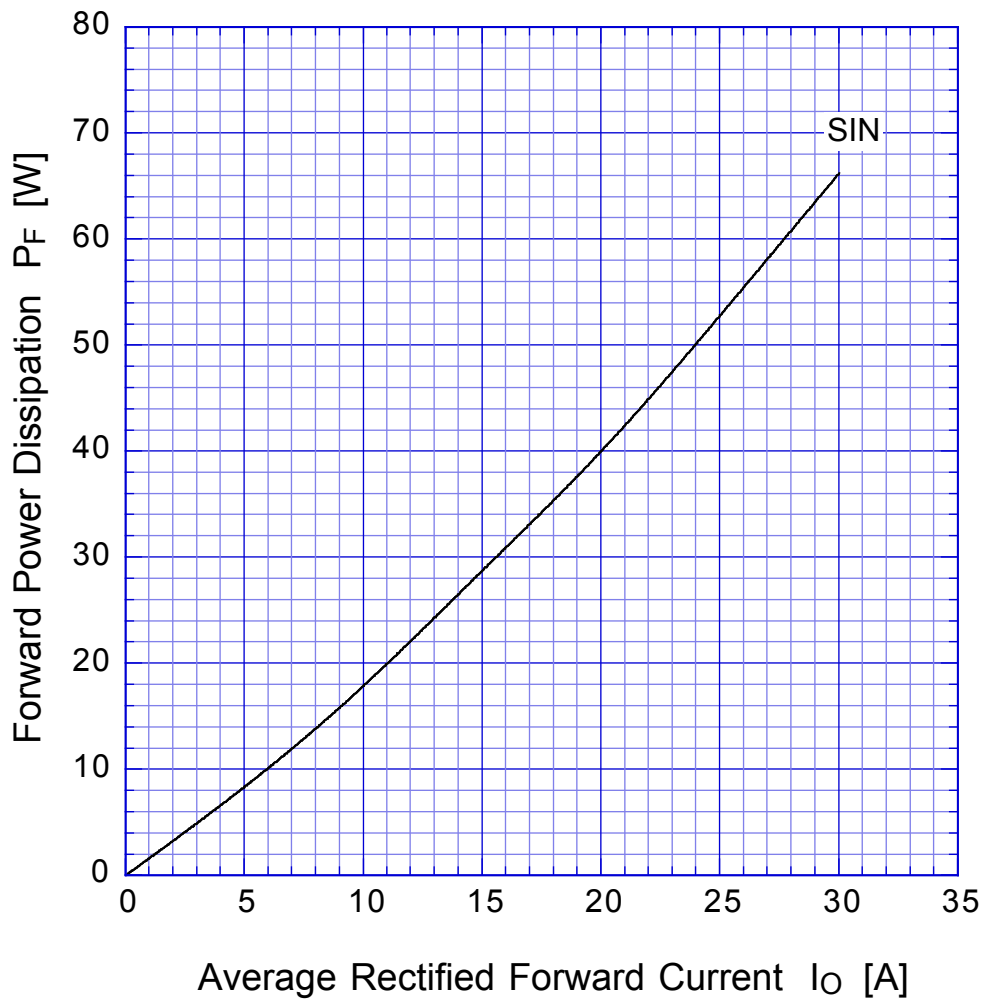
- Electrical Characteristics (If not specified T_c=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =10A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.100	μA
Thermal Resistance	θ _{jc}	junction to case	Max.0.5	°C/W

S30VTA160 Forward Voltage



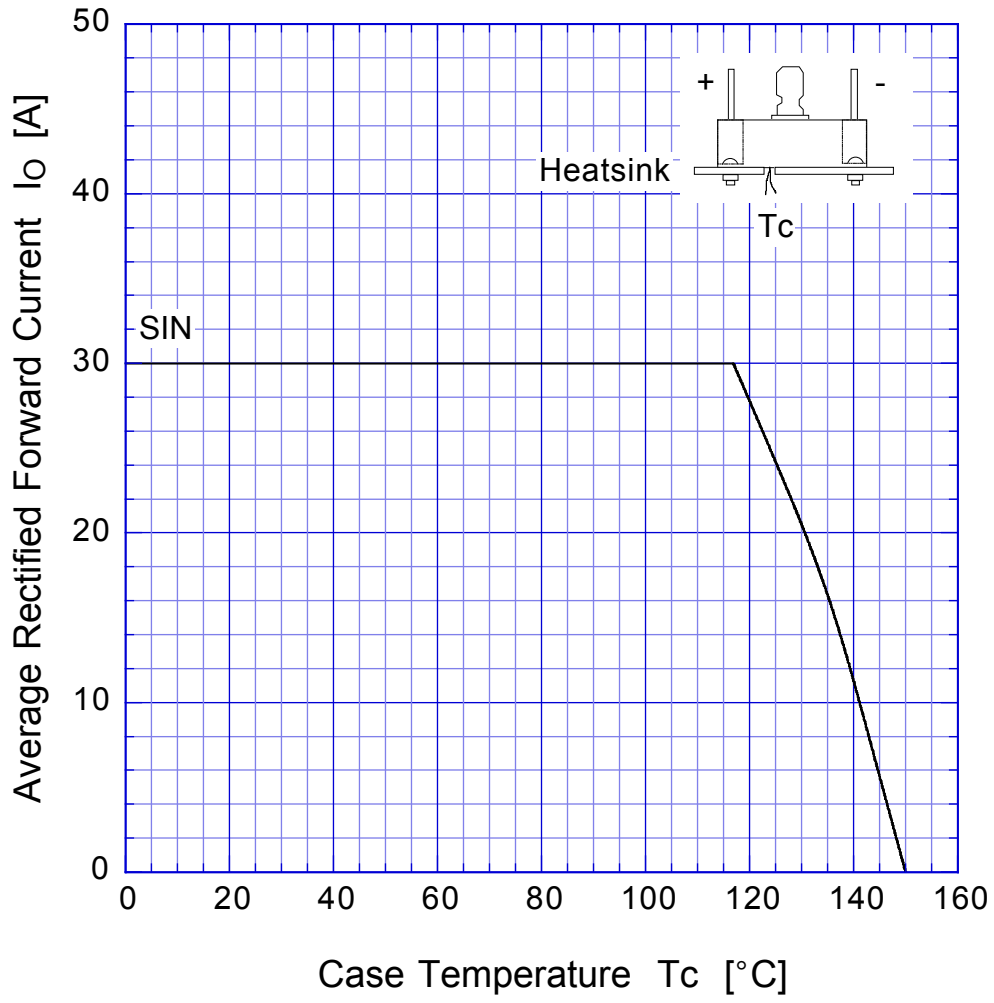
S30VTA160 Forward Power Dissipation



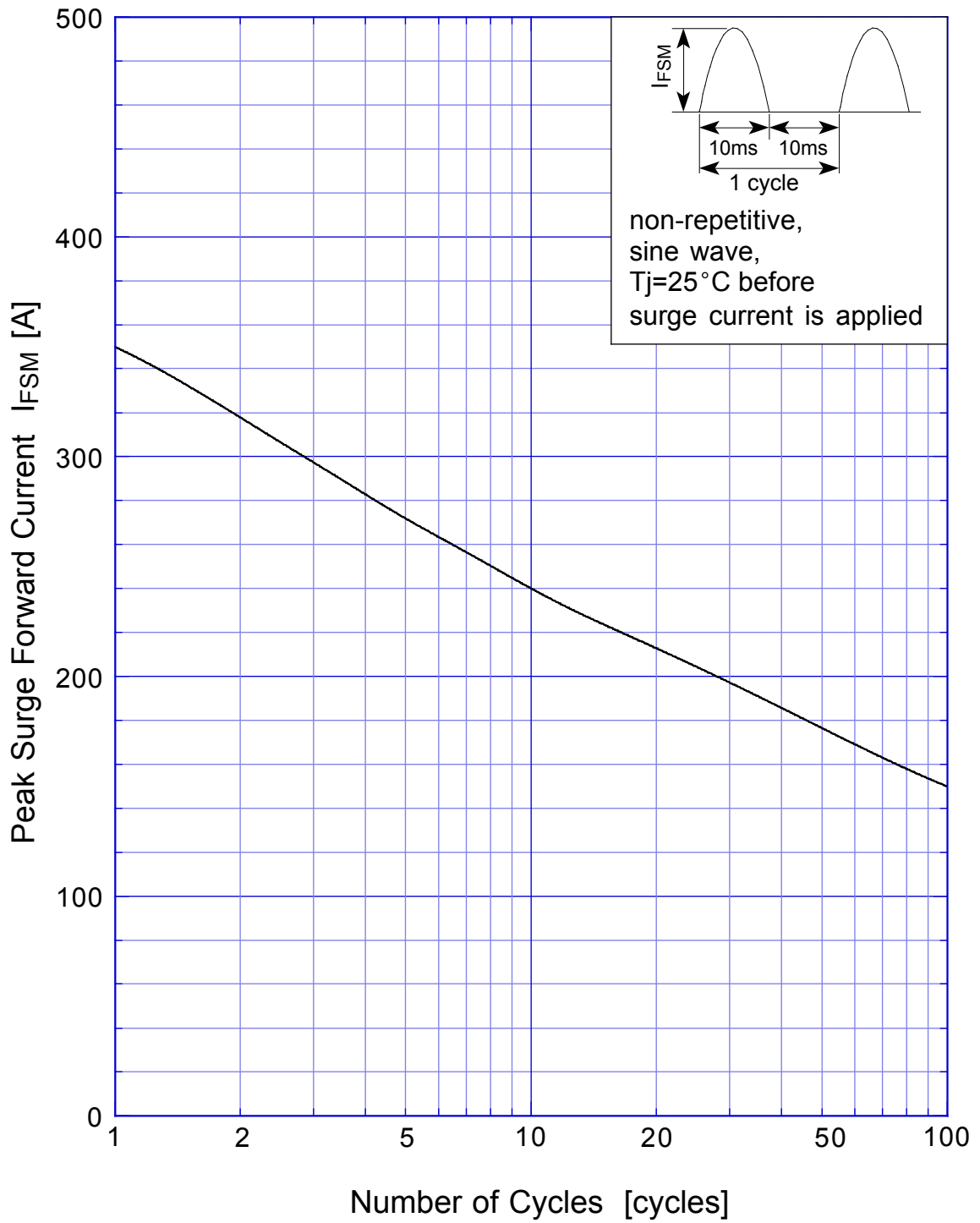
$T_j = 150^\circ\text{C}$
Sine wave

S30VTA160

Derating Curve



S30VTA160 Peak Surge Forward Capability



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