

SHINDENGEN

General Purpose Rectifiers

Doubler

DF15VD60

600V 15A

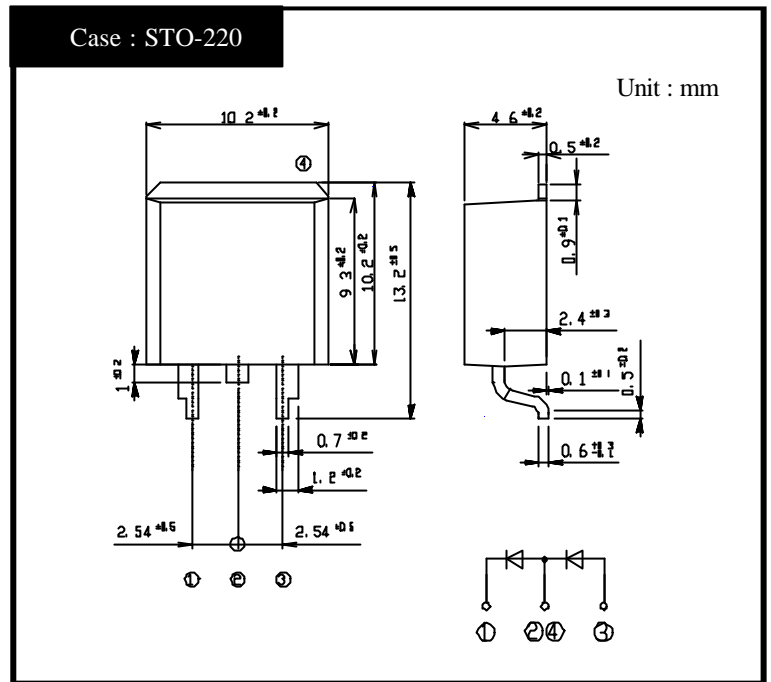
FEATURES

- SMT(STO-220)
- Doubler
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

APPLICATION

- PFC
- Switching power supply
- Home Appliance, Office Equipment
- Telecommunication, Factory automation

OUTLINE DIMENSIONS



RATINGS

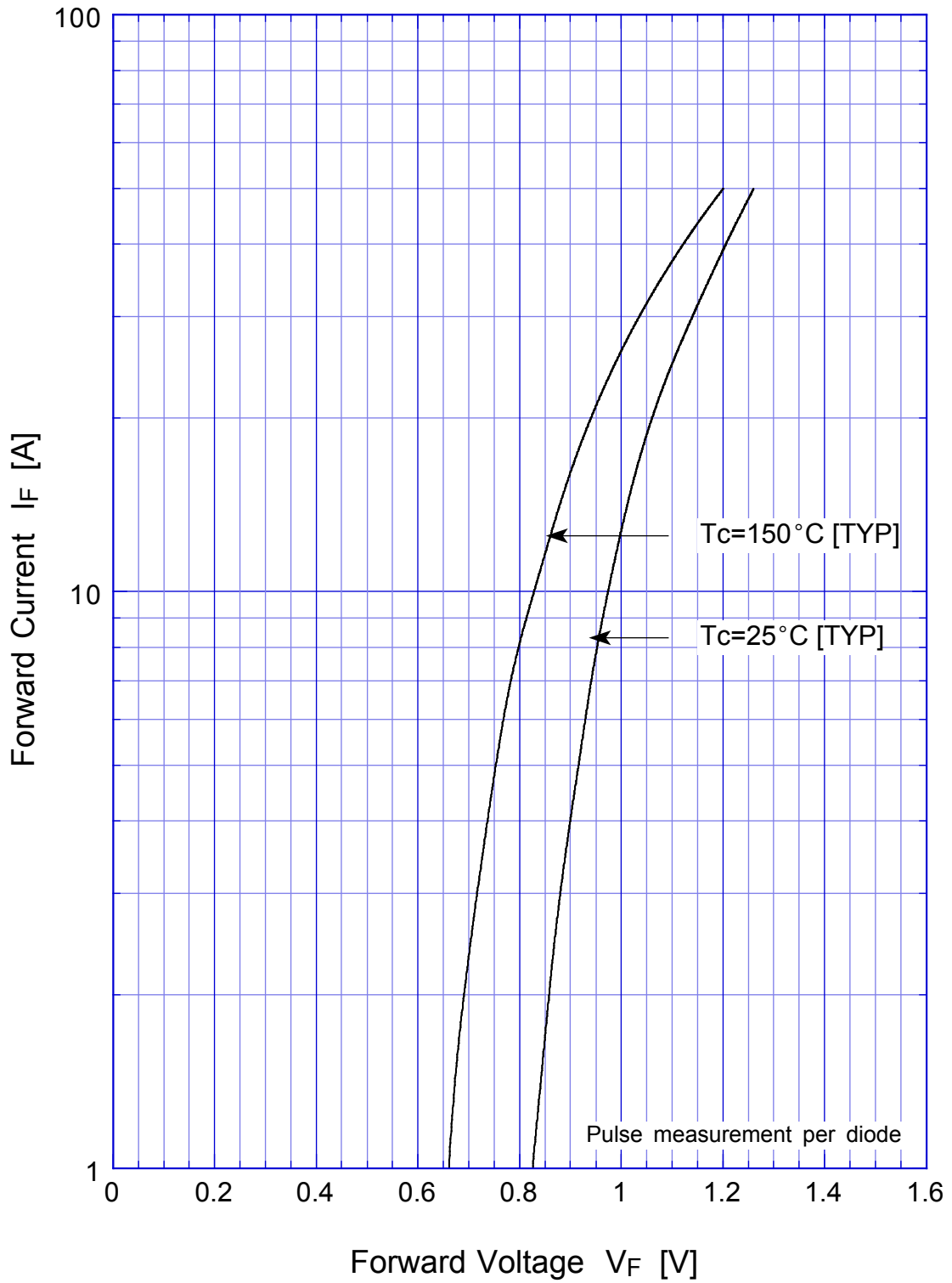
Absolute Maximum Ratings (If not specified Tc=25)

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, Tc=127	15	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	190	A

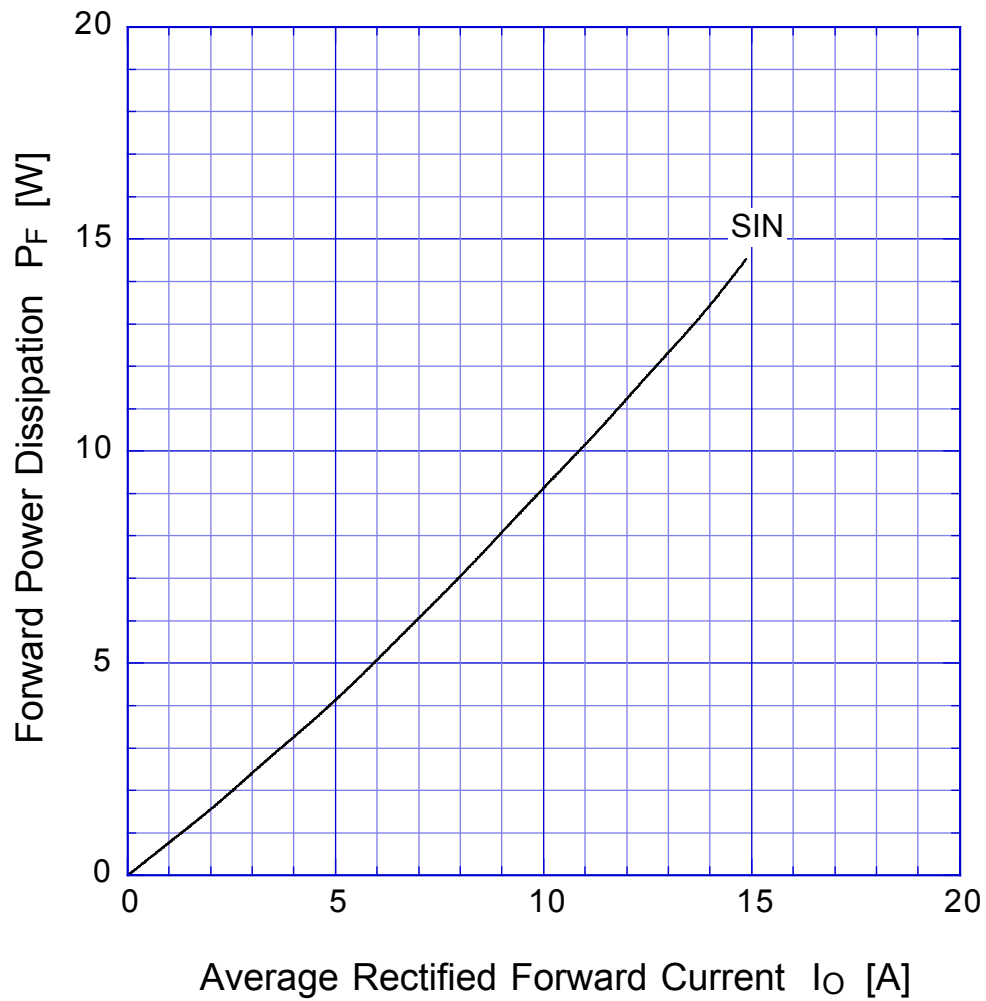
Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =7.5A, 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.10	μA
Thermal Resistance	jc	junction to case	Max.1.6	/W

DF15VD60 Forward Voltage



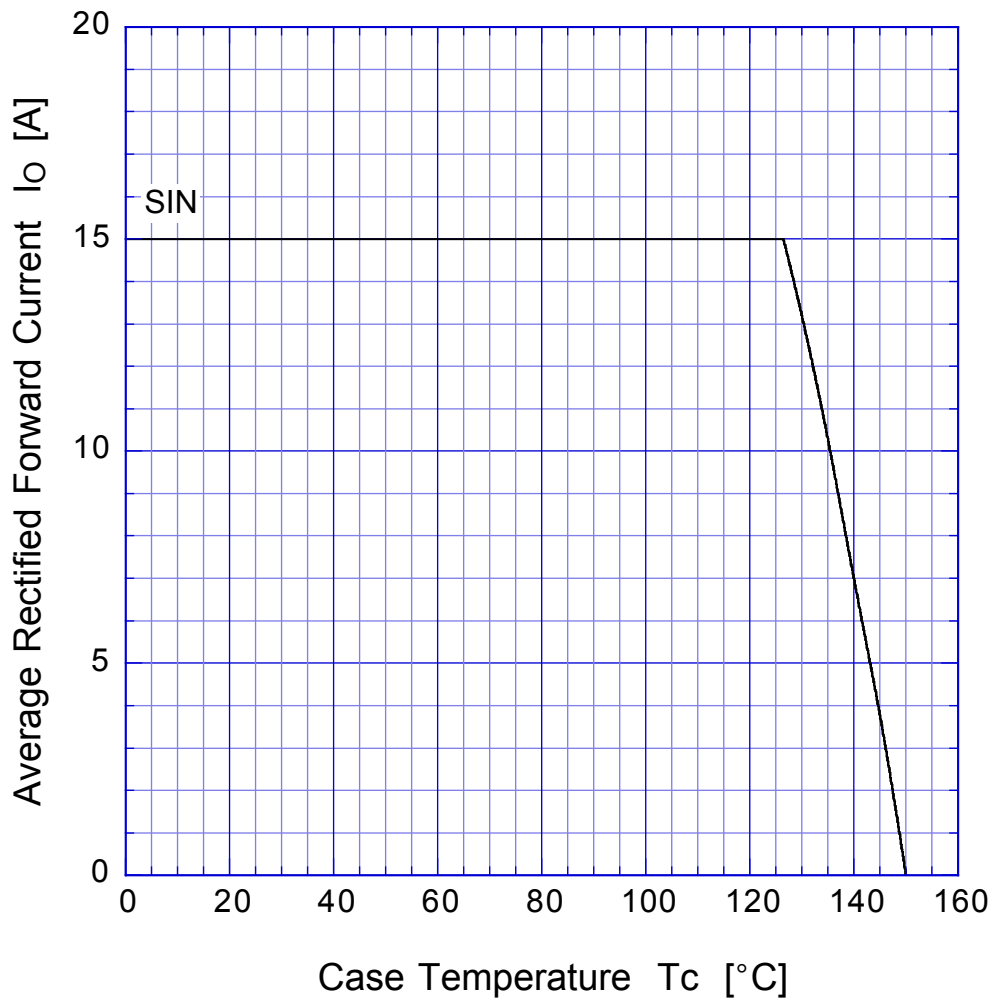
DF15VD60 Forward Power Dissipation



$T_j = 150^\circ\text{C}$
Sine wave
R-load
Single phase rectification

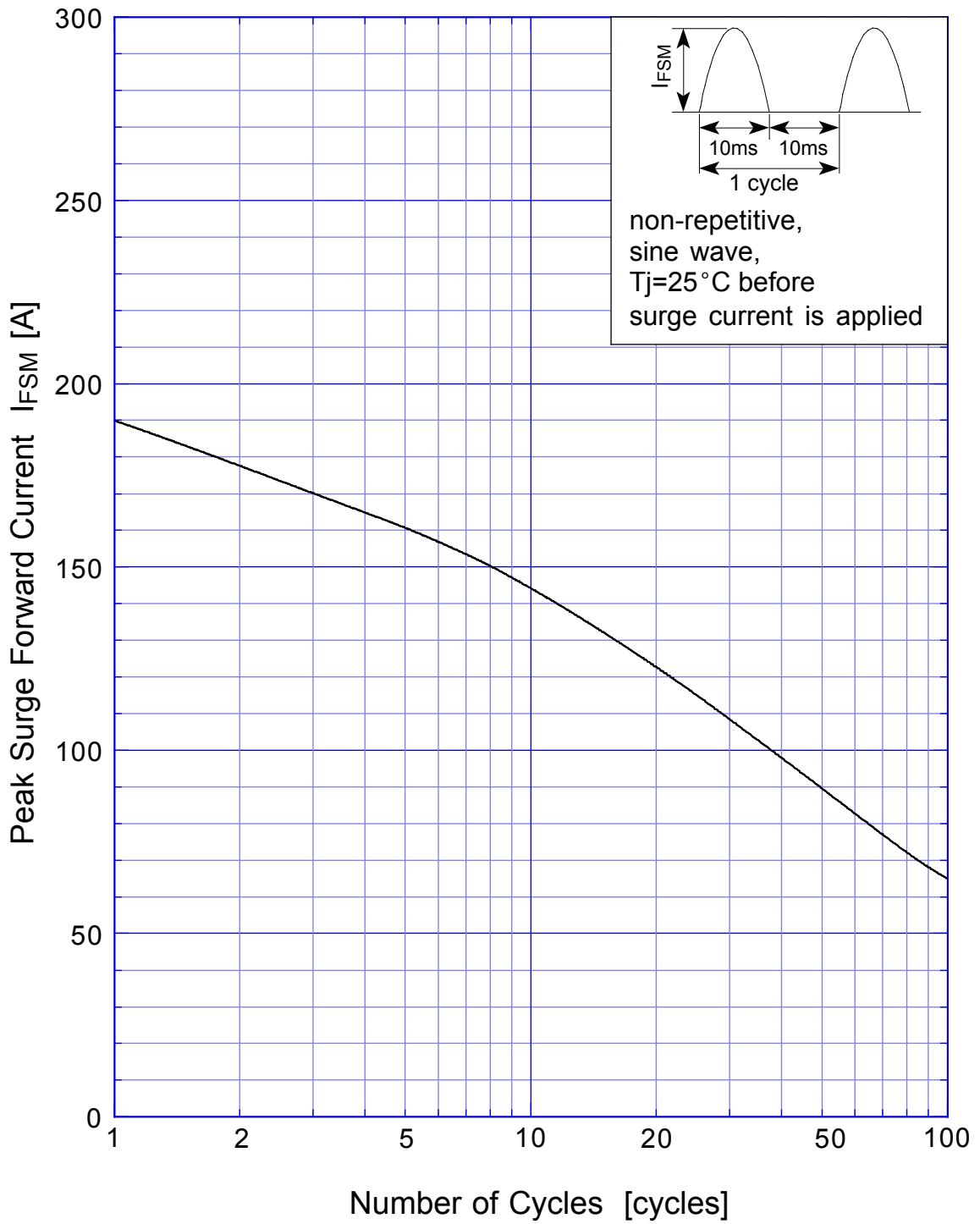
DF15VD60

Derating Curve



Sine wave
R-load
Single phase rectification

DF15VD60 Peak Surge Forward Capability



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