

SHINDENGEN

General Purpose Rectifiers

Doubler

DF15VD60

600V 15A

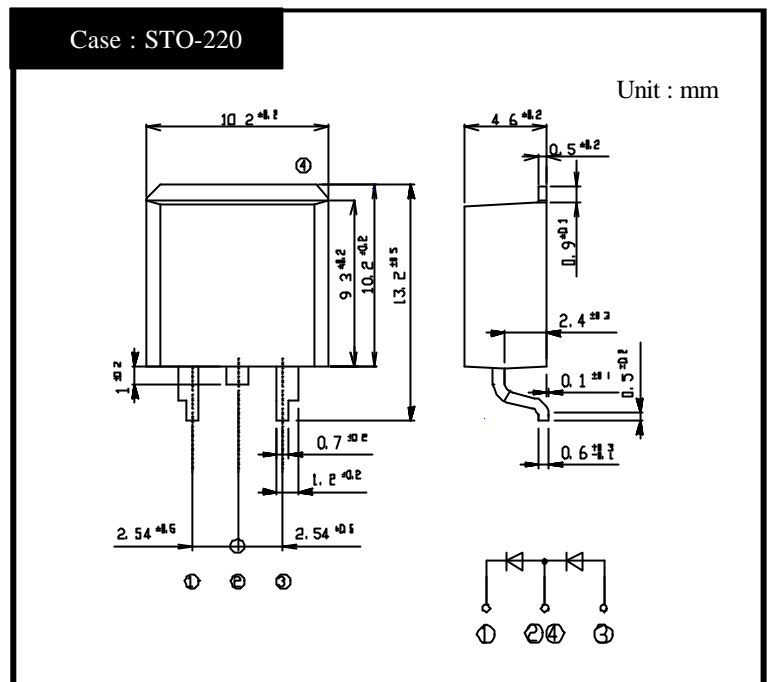
FEATURES

- 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

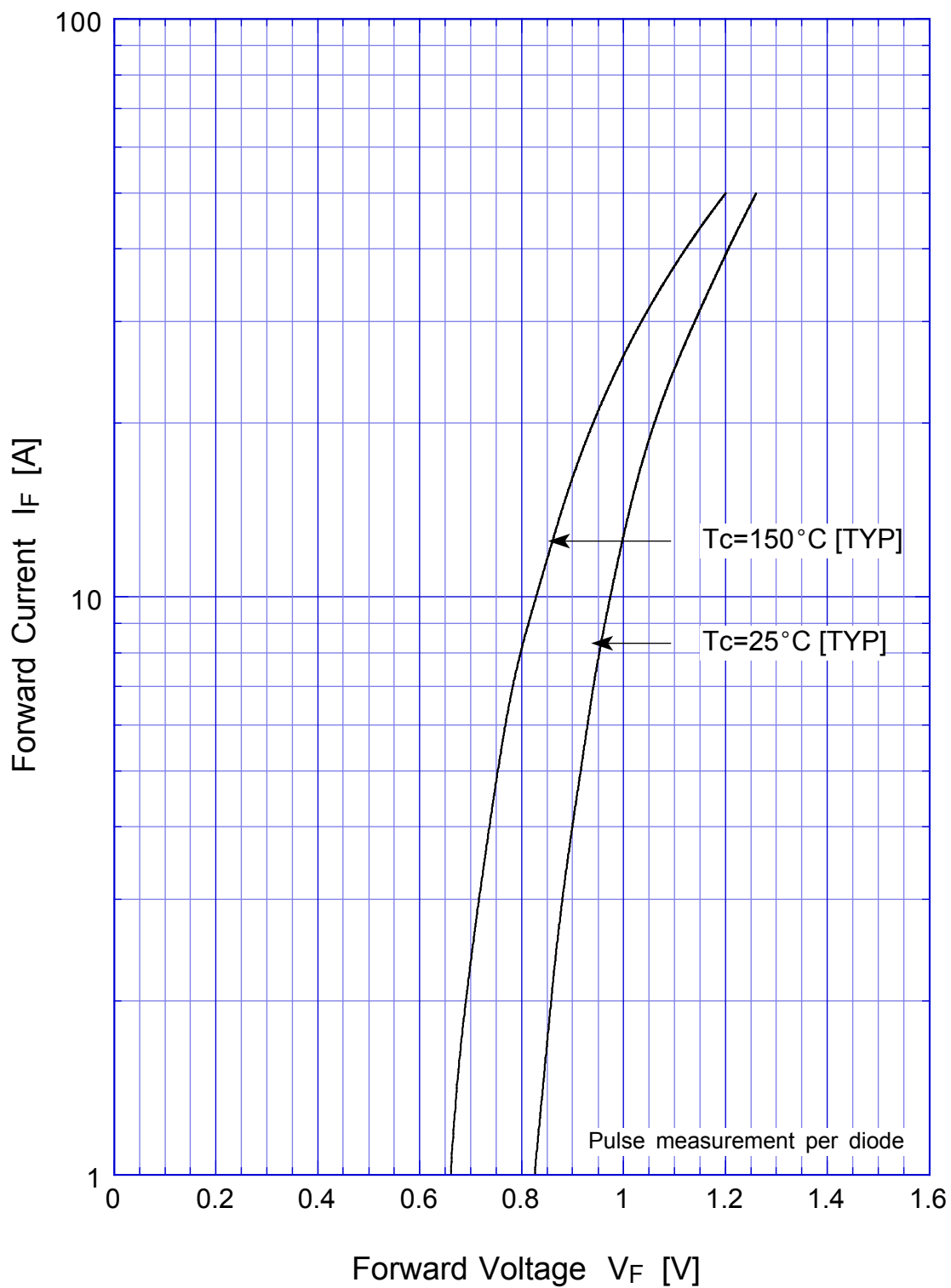
Absolute Maximum Ratings (If not specified $T_c=25$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-40 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_c=127$	15	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, $T_j=25$	190	A

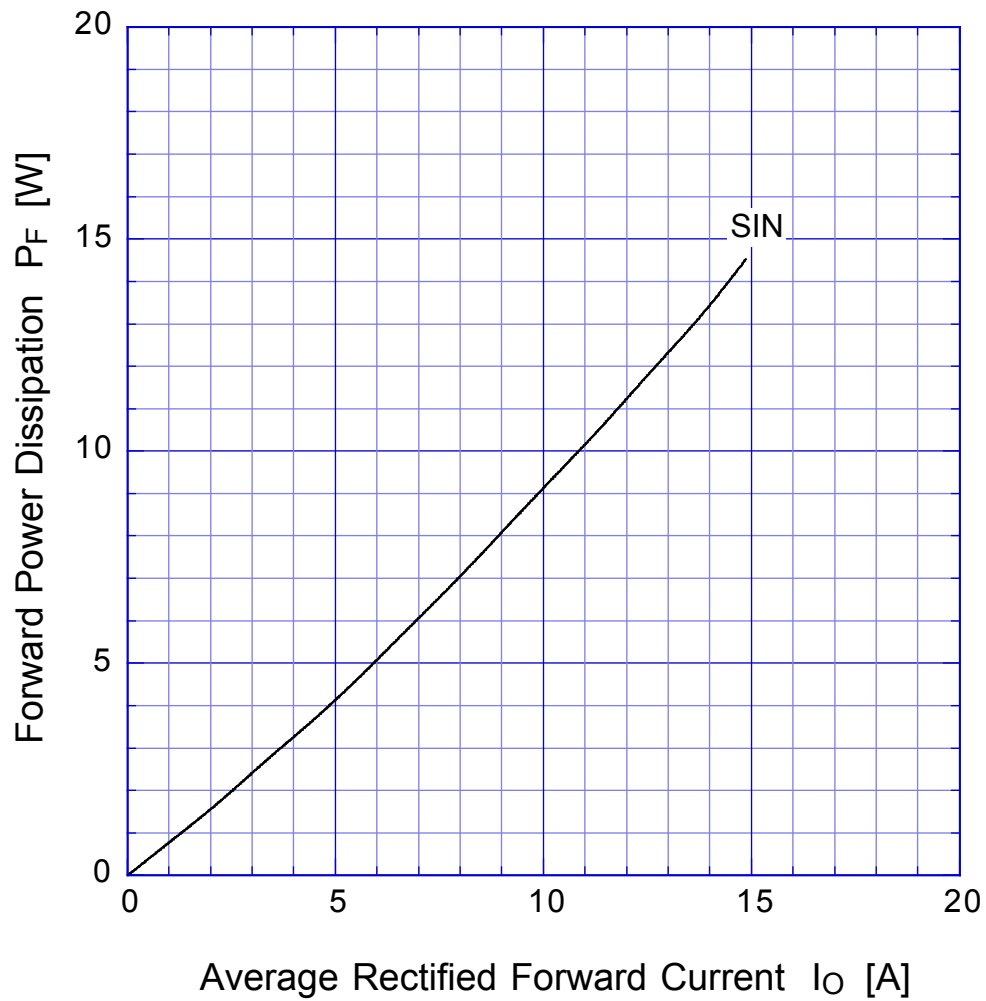
Electrical Characteristics (If not specified $T_c=25$)

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	θ_{jc}	junction to case	Max.1.6	/W

DF15VD60 Forward Voltage



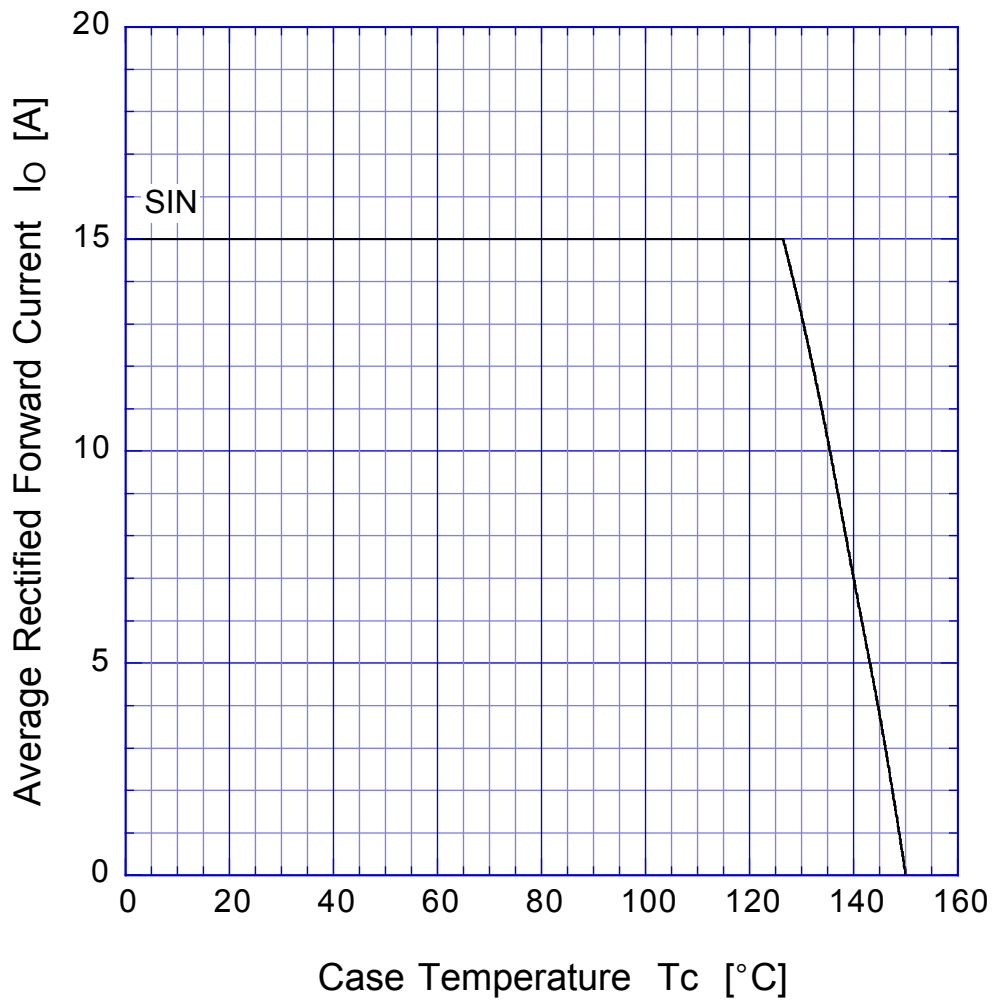
DF15VD60 Forward Power Dissipation



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

DF15VD60

Derating Curve



Sine wave
R-load
Single phase rectification

DF15VD60 Peak Surge Forward Capability

