

# SHINDENGEN

## General Purpose Rectifiers

Doubler

# DF5VD60

600V 5A

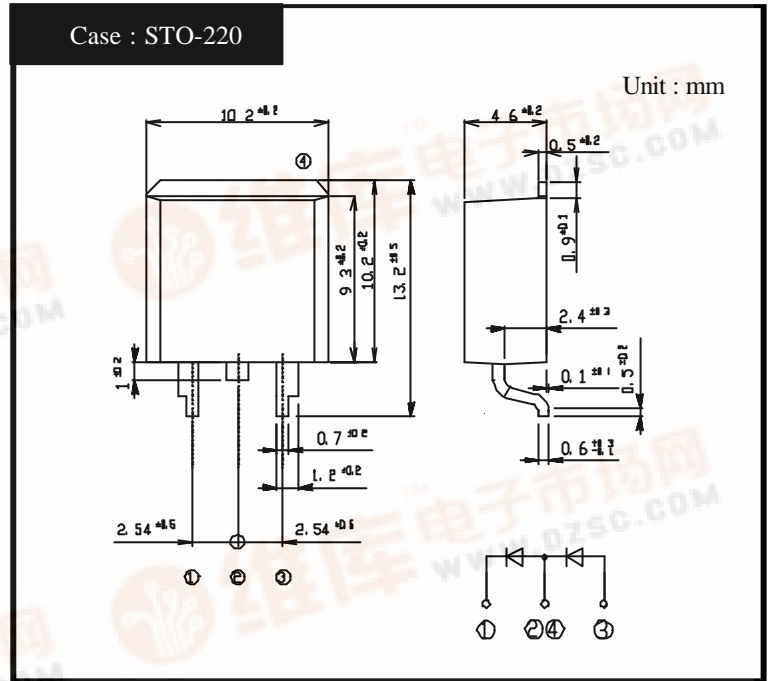
### FEATURES

- 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	T <sub>stg</sub>		-40 ~ 150	
Operating Junction Temperature	T <sub>j</sub>		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>O</sub>	50Hz sine wave, R-load, Rating for each diode I <sub>O</sub> /2, Tc=140	5	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	140	A

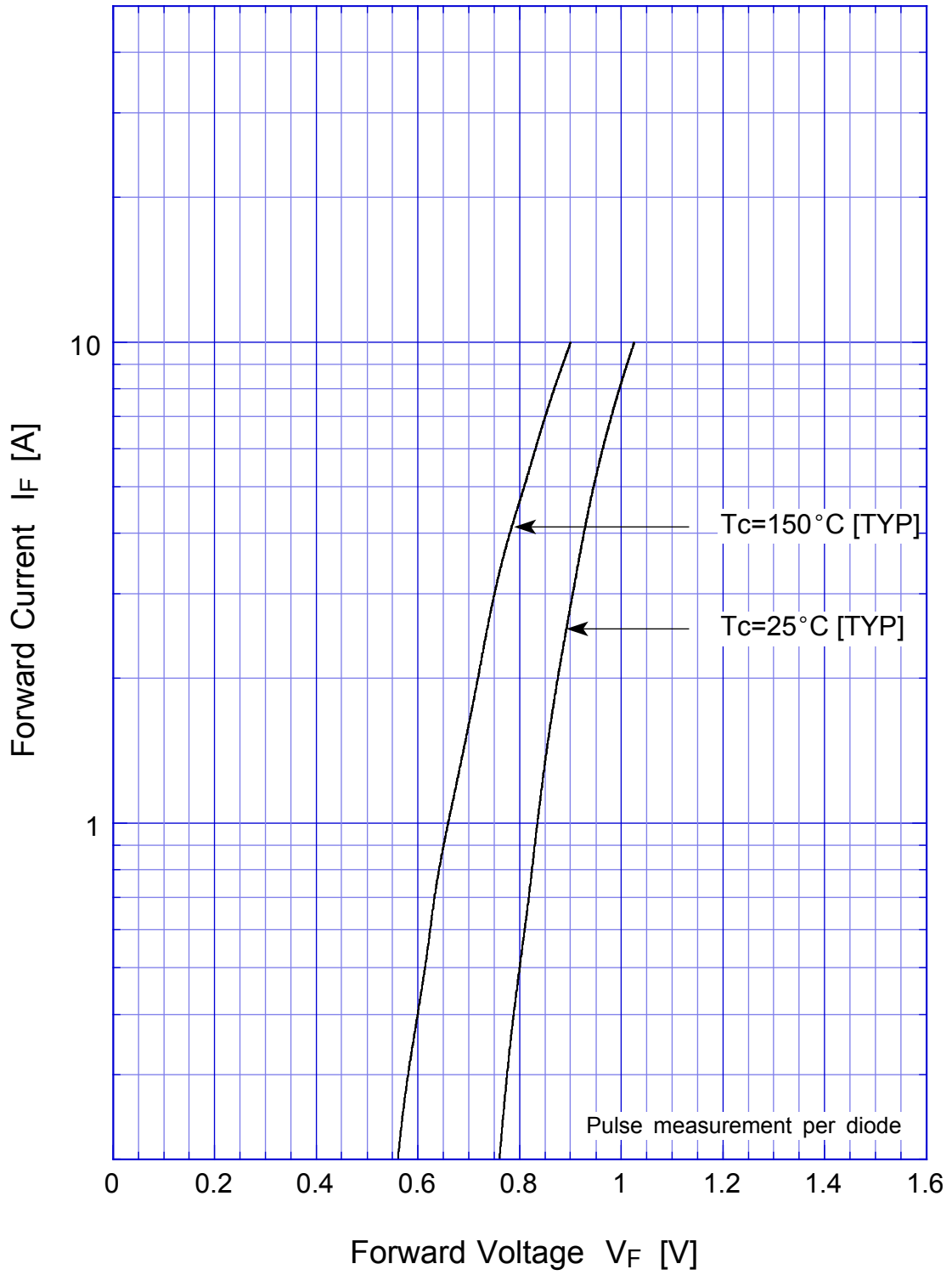
Electrical Characteristics (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2.5A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	θ <sub>JC</sub>	junction to case	Max.2	/W

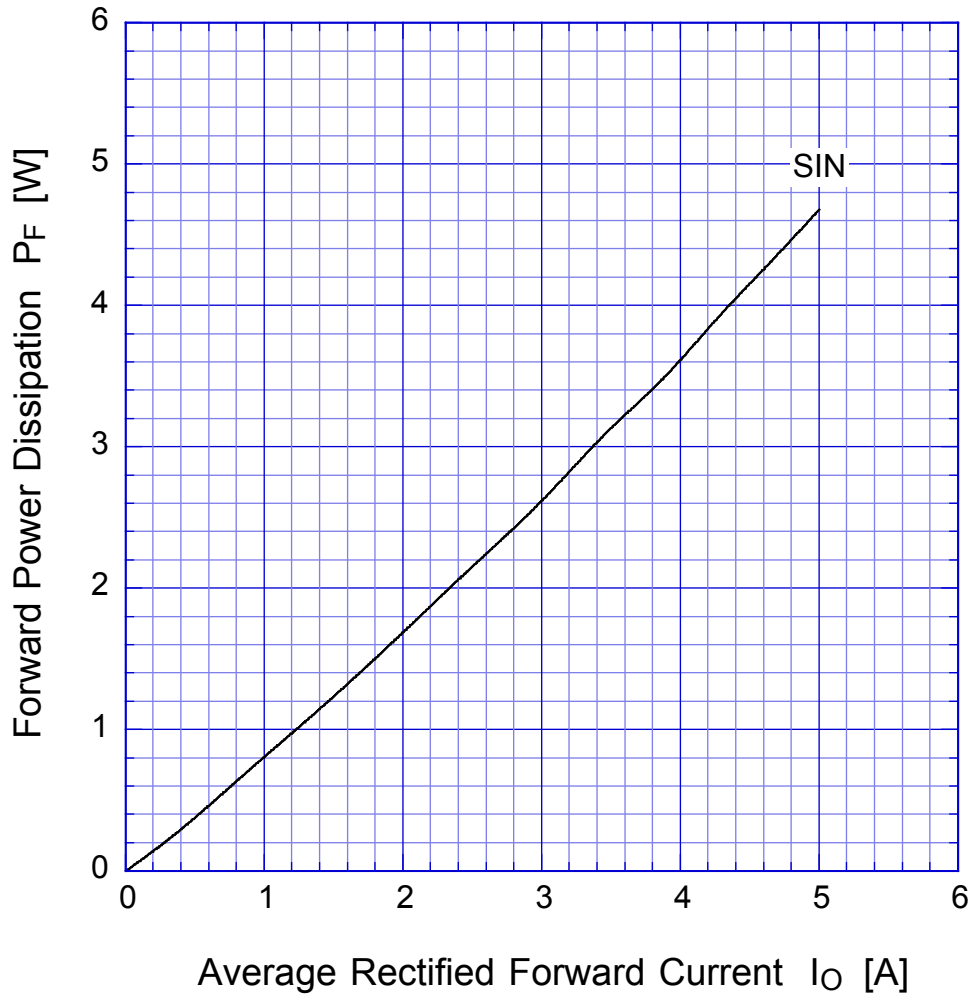


DF5VD60

Forward Voltage



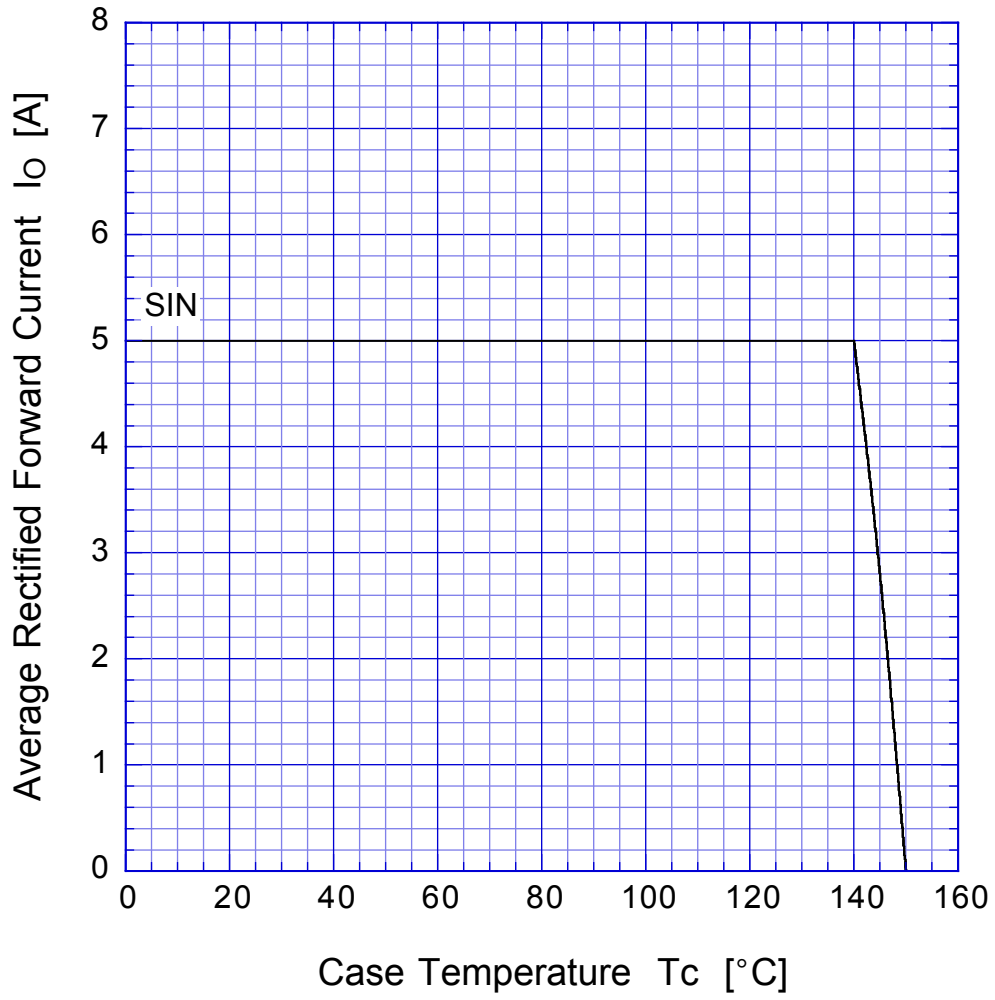
## DF5VD60 Forward Power Dissipation



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

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Derating Curve



Sine wave  
R-load  
Single phase rectification

# DF5VD60

## Peak Surge Forward Capability

