

SHINDENGEN

General Purpose Rectifiers

Doubler

DF5VD60

600V 5A

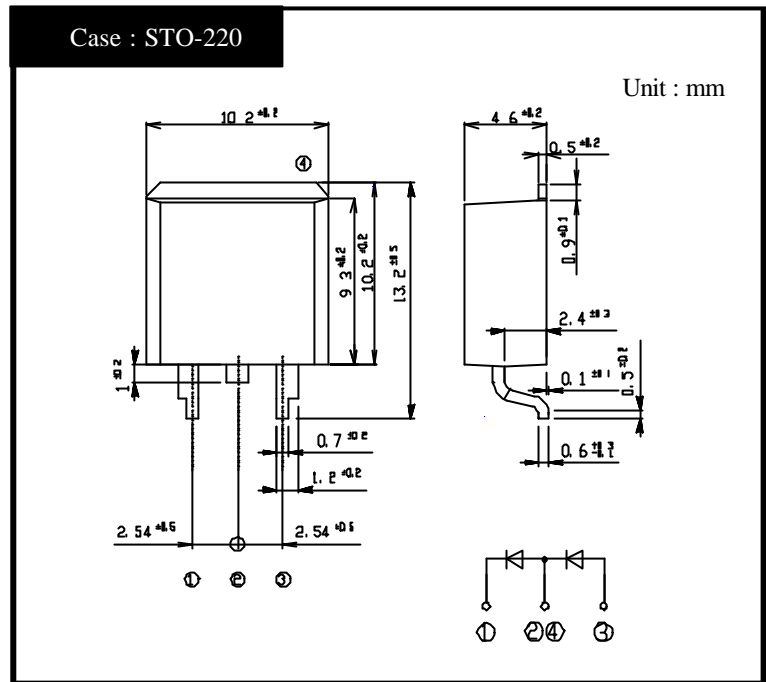
FEATURES

- 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)

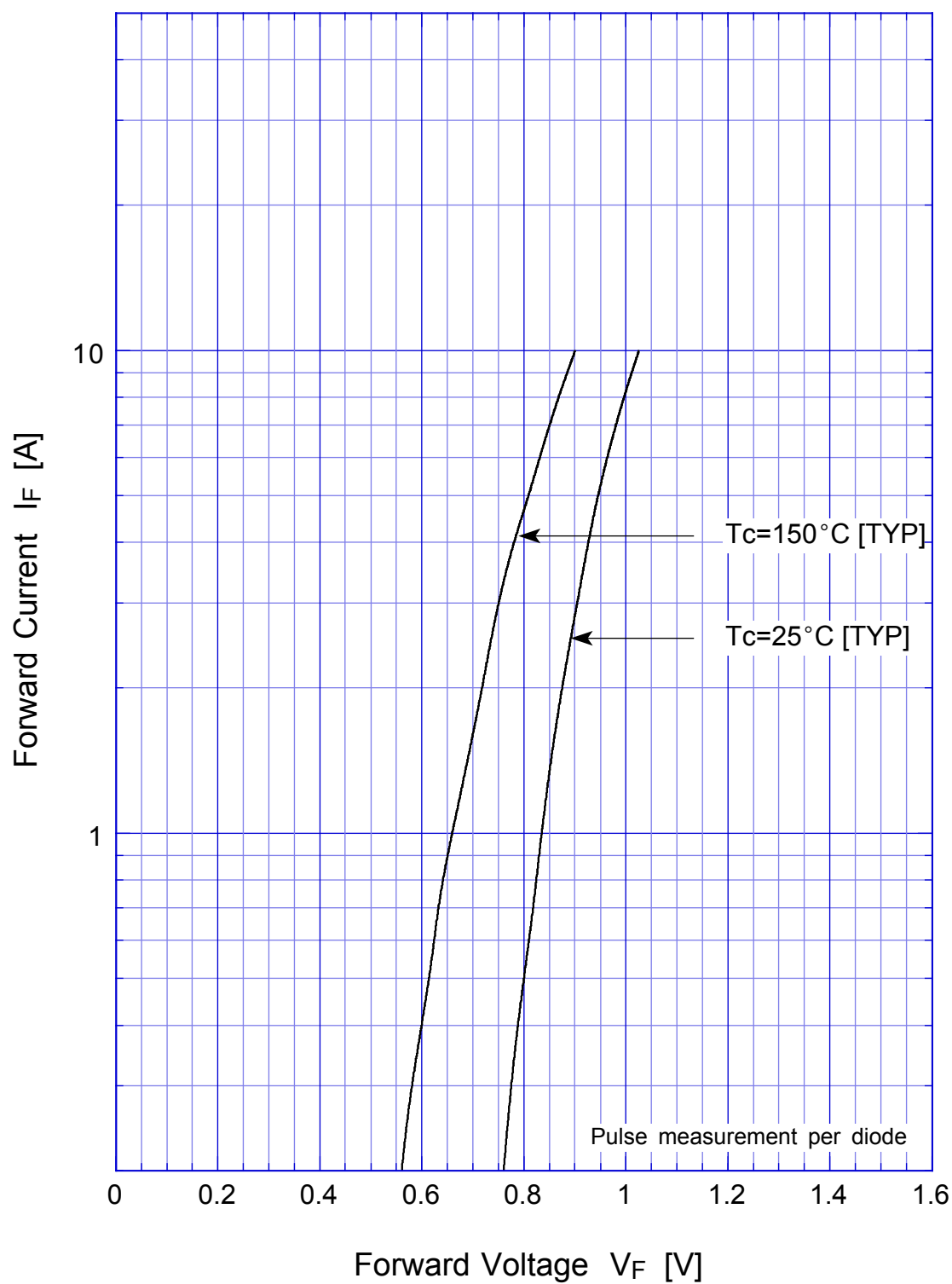
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, Tc=140	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	140	A

Electrical Characteristics (If not specified Tc=25)

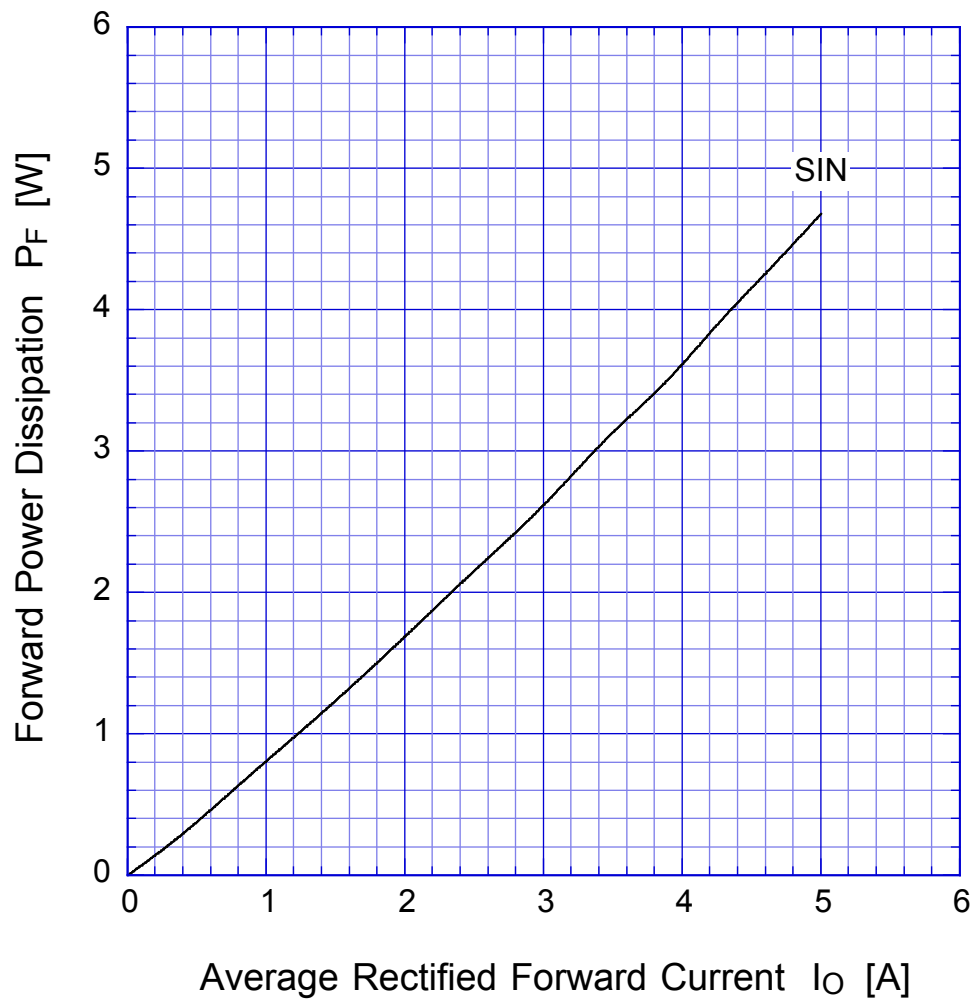
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.5A, Pulse measurement, Rating of per diode	Max.1.05	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Thermal Resistance	jc	junction to case	Max.2	/W

DF5VD60

Forward Voltage



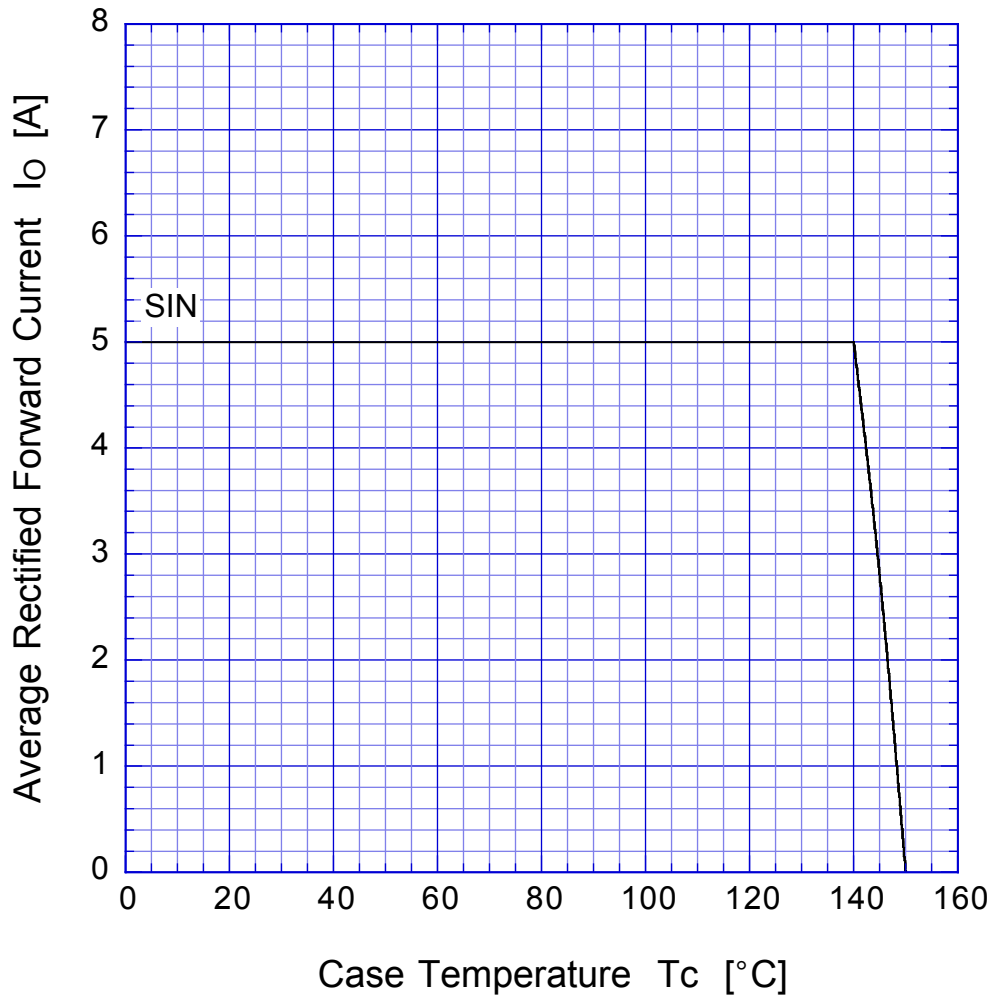
DF5VD60 Forward Power Dissipation



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

DF5VD60

Derating Curve



Sine wave
R-load
Single phase rectification

DF5VD60 Peak Surge Forward Capability

