

# SHINDENGEN

## Super Fast Recovery Rectifiers

Single

### DF10L60

600V 10A

#### FEATURES

SMT

High Voltage

trr50ns

#### APPLICATION

PFC

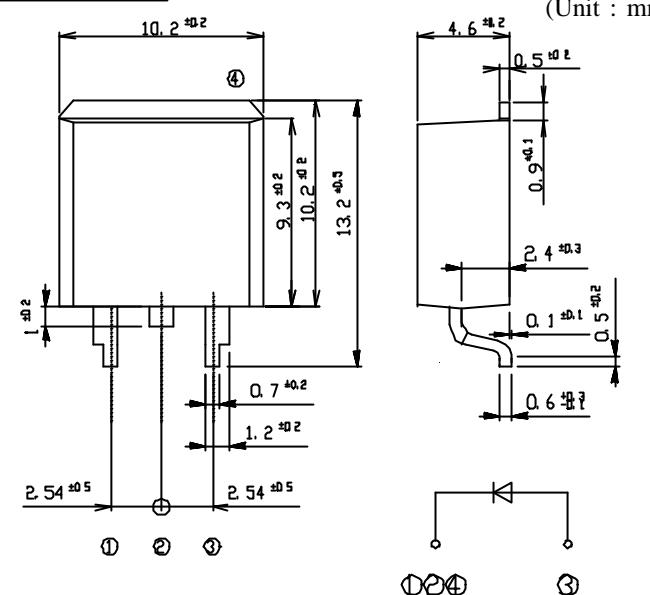
Switching power supply

Free Wheel

Home Appliances, Office Equipment,  
Factory Automation

#### OUTLINE DIMENSIONS

Case : STO-220



#### RATINGS

Absolute Maximum Ratings (If not specified Tc=25 )

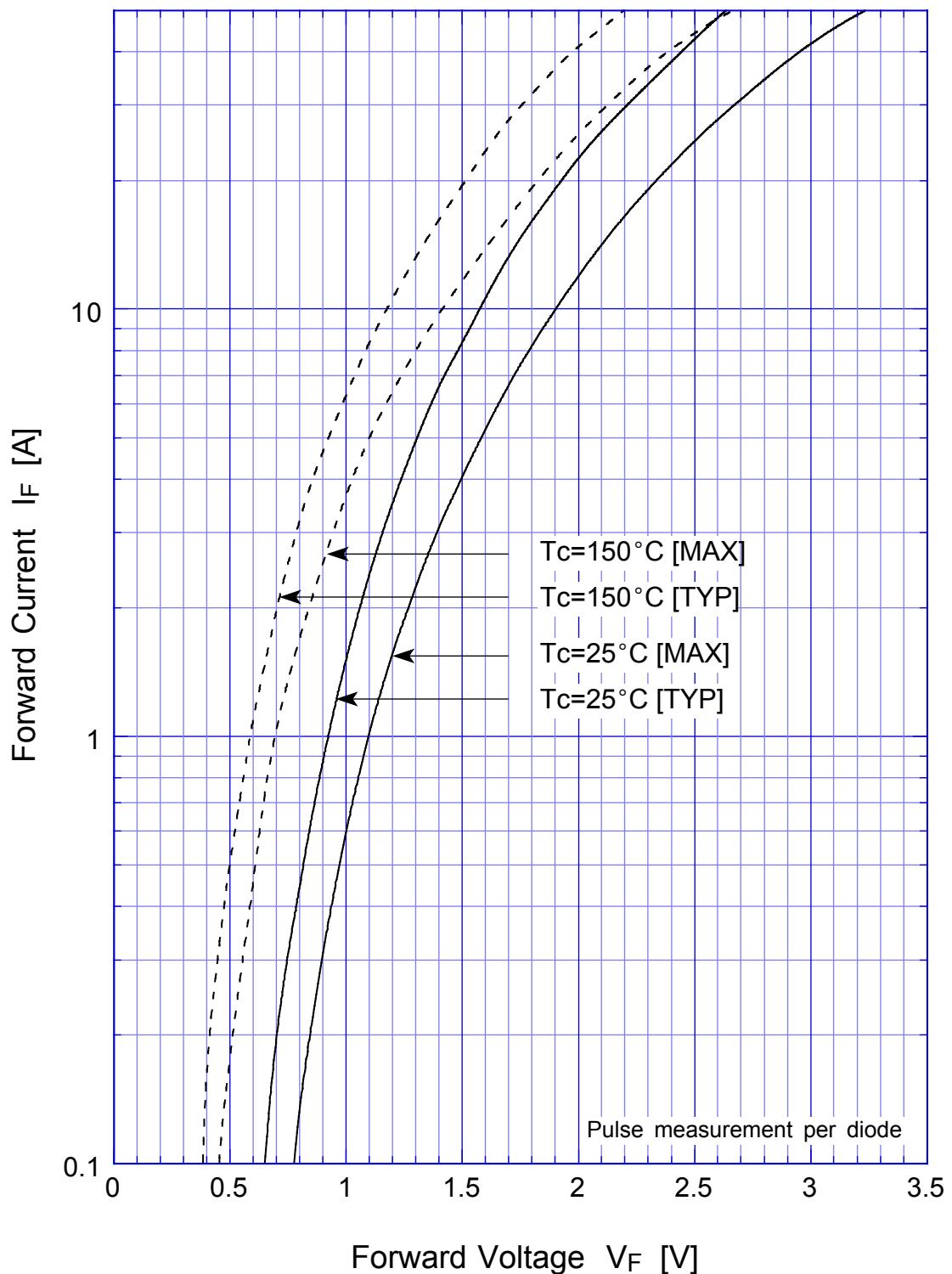
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V <sub>RM</sub>		600	V
Average Rectified Forward Current	I <sub>o</sub>	50Hz sine wave, R-load, Tc=105	10	A
Peak Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	100	A

Electrical Characteristics (If not specified Tc=25 )

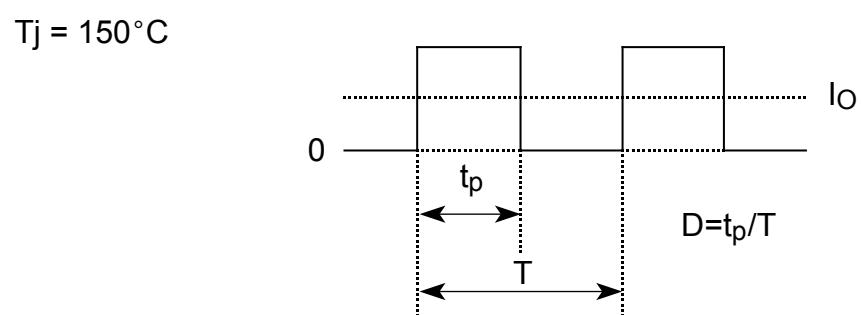
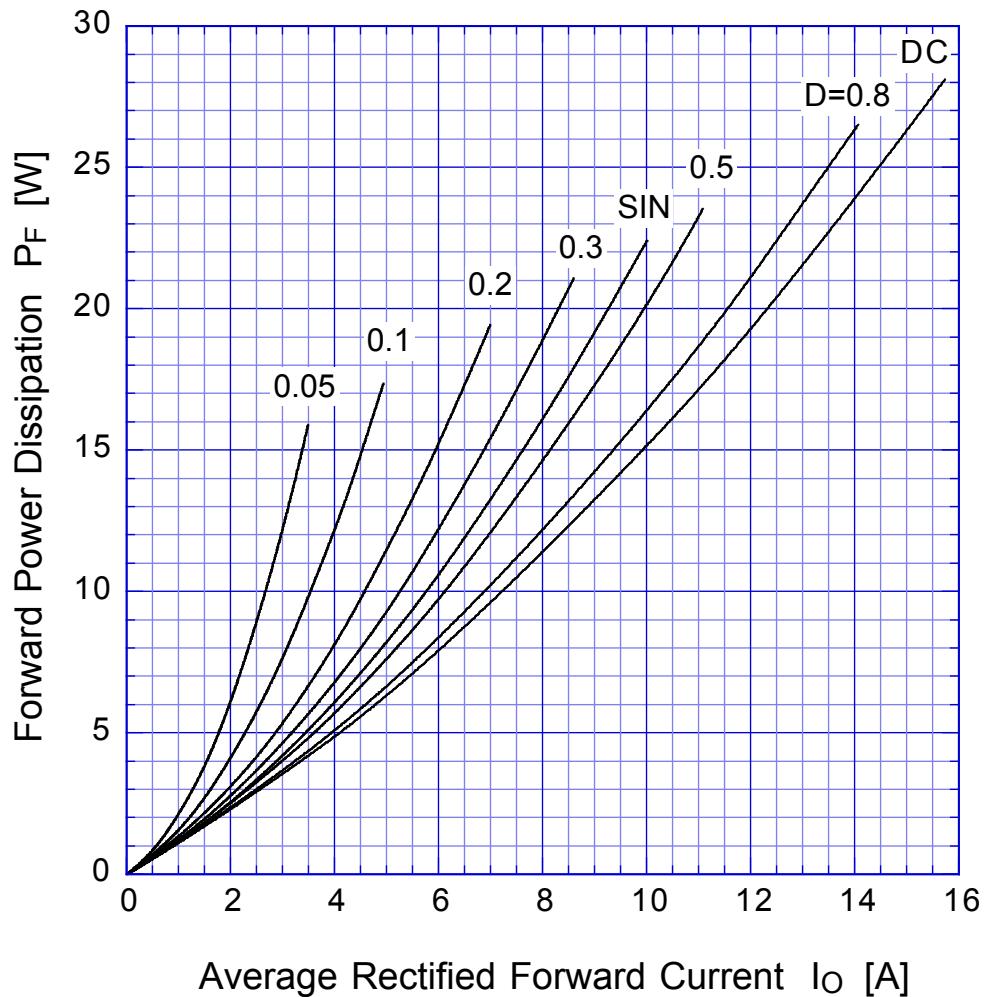
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10A, Pulse measurement	Max.1.9	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement	Max.10	μ A
Reverse Recovery Time	trr	I <sub>F</sub> =0.5A, I <sub>R</sub> =1A	Max.50	ns
Thermal Resistance	j <sub>C</sub>	junction to case	Max.2	/W

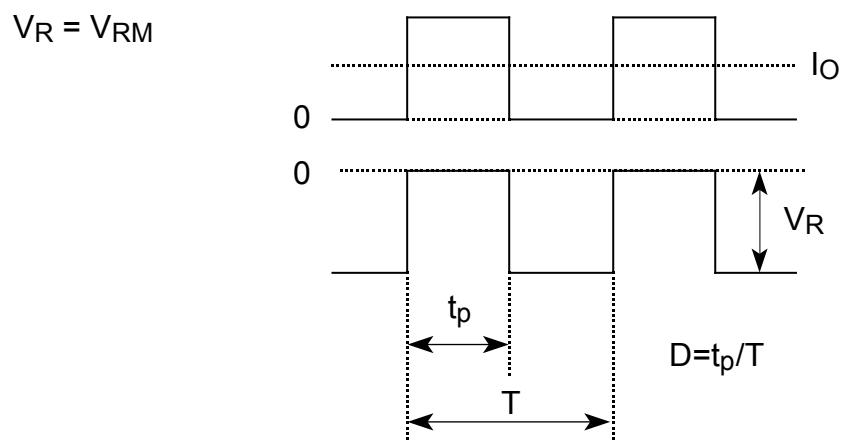
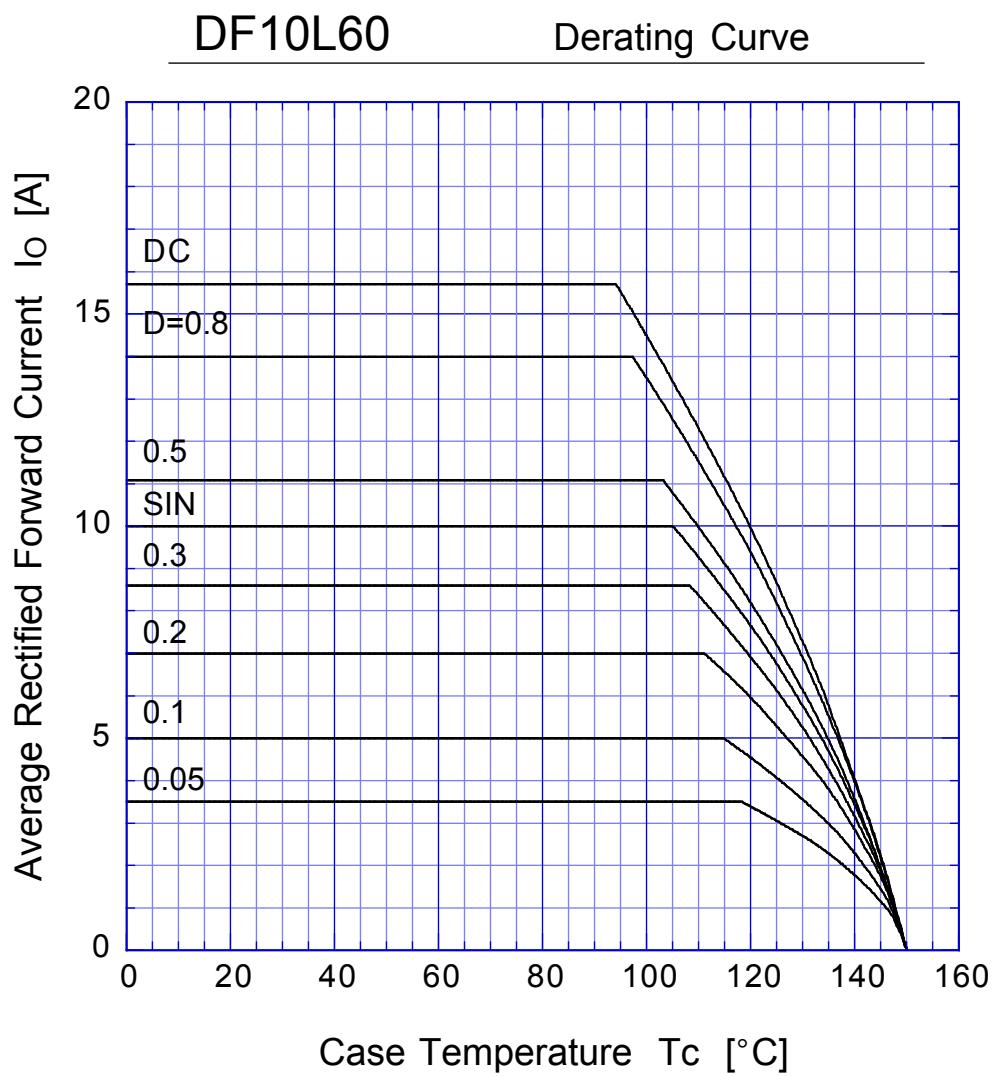
# DF10L60

## Forward Voltage



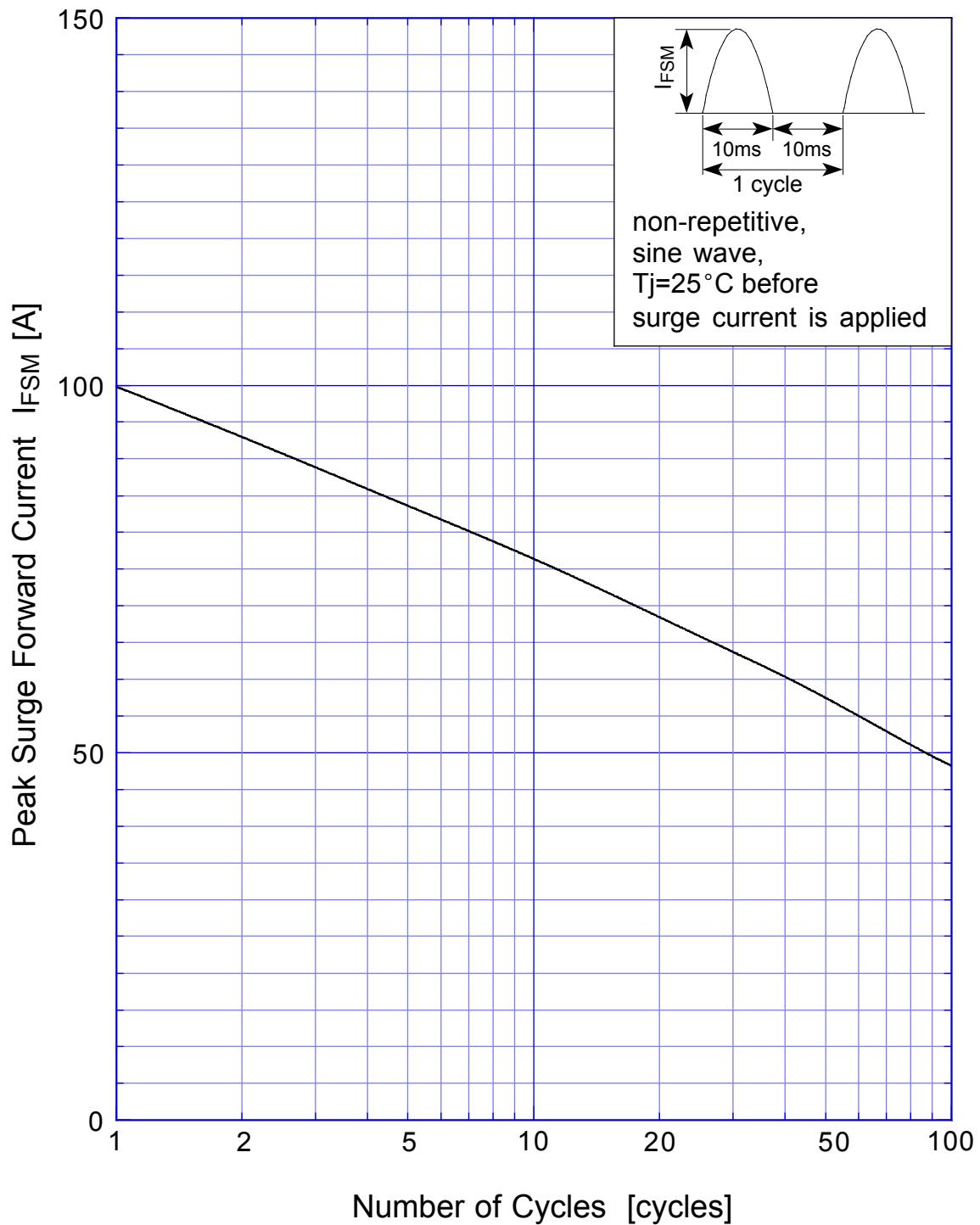
## DF10L60 Forward Power Dissipation





DF10L60

Peak Surge Forward Capability



## DF10L60 Junction Capacitance

