

SHINDENGEN

Super Fast Recovery Rectifiers

Single

SF5L30

300V 5A

FEATURES

trr30ns

Fully Isolated Molding

Dielectric strength 2kV guaranteed

APPLICATION

Switching power supply

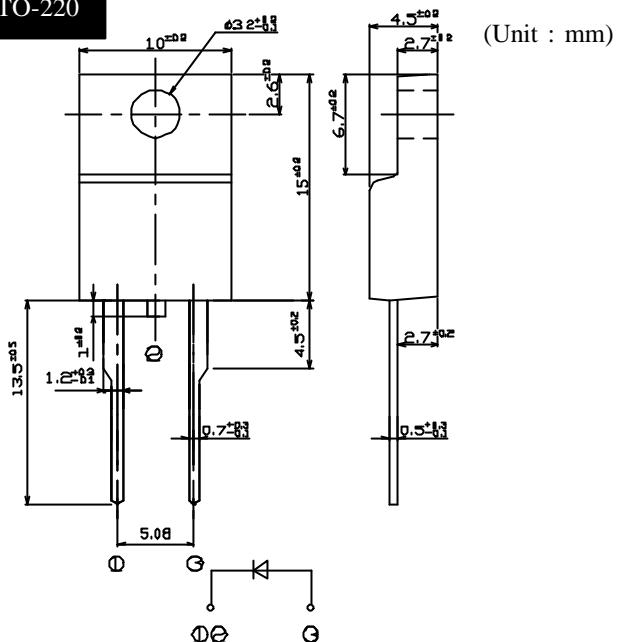
Free Wheel

Home Appliances, Office Equipment

Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : FTO-220



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

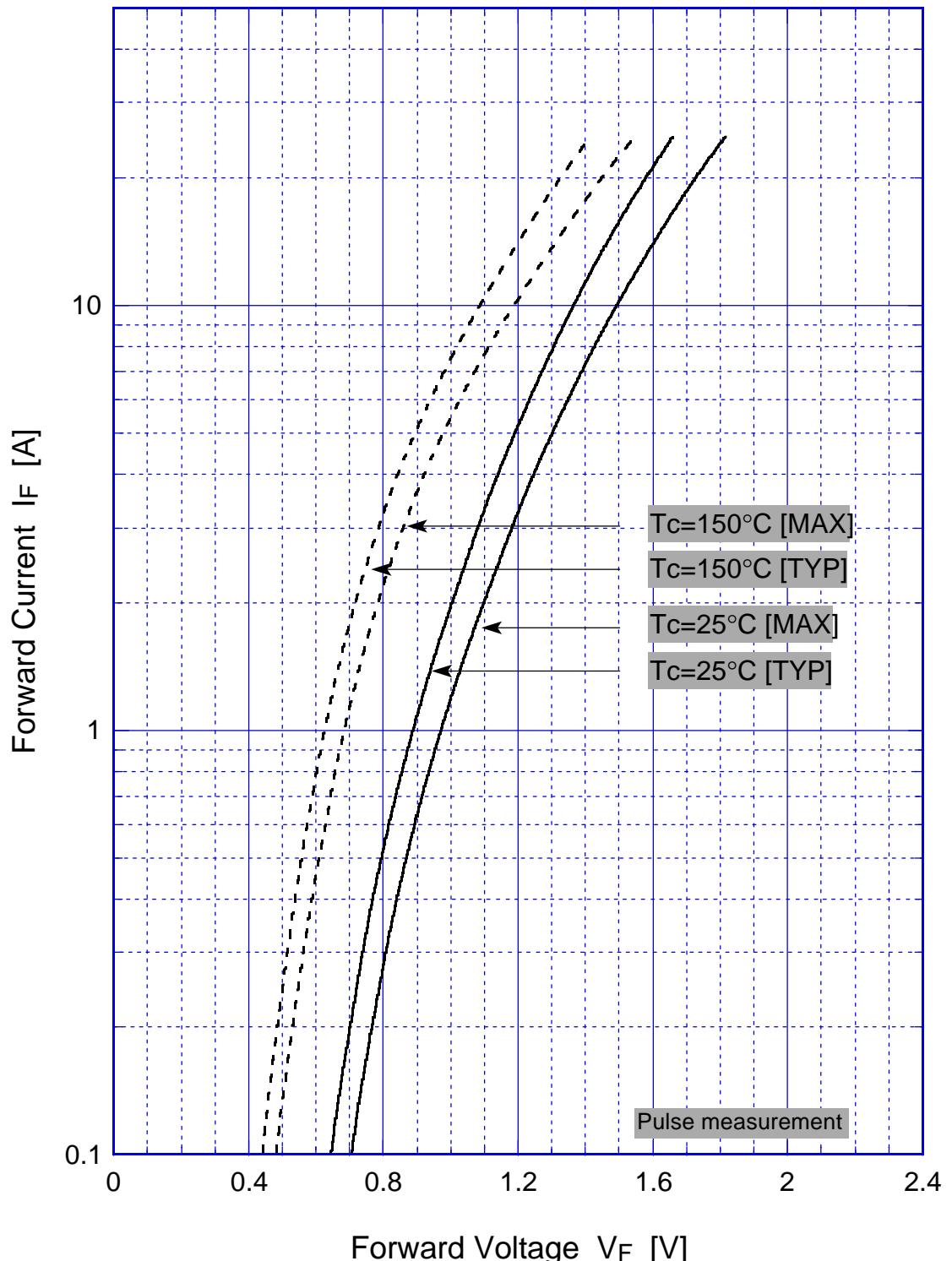
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Operating Junction Temperature	T _j		150	
Maximum Reverse Voltage	V _{RM}		300	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=130	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	60	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	T _{OR}	(Recommended torque : 0.3N·m)	0.5	N·m

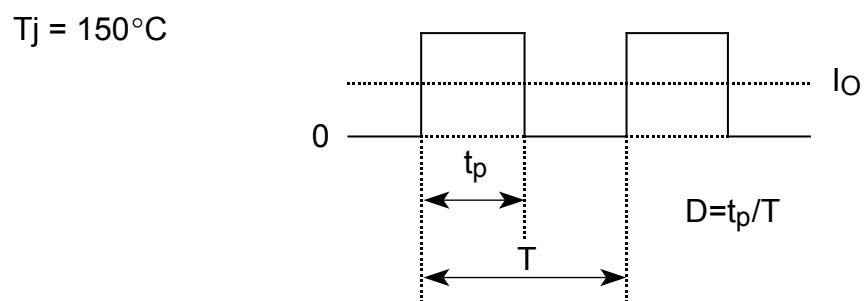
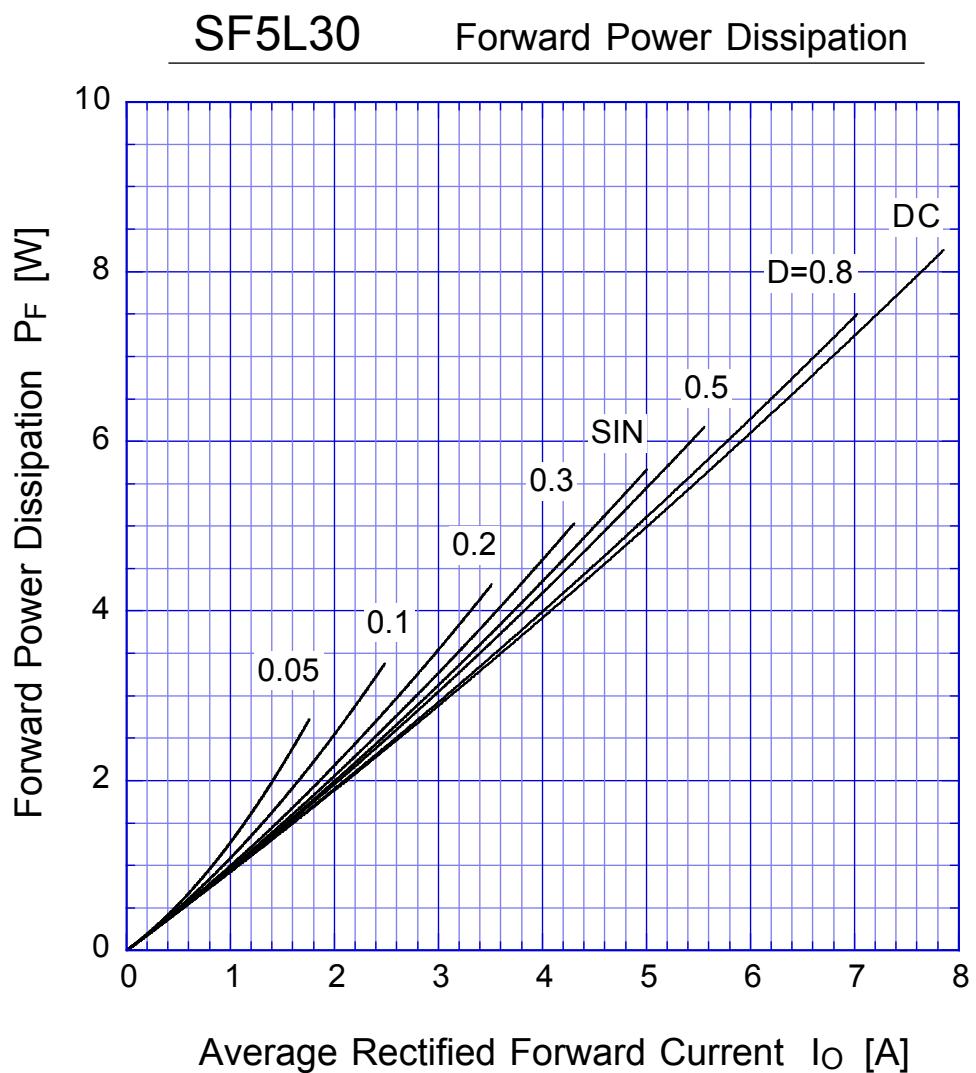
Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =5A, Pulse measurement	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.25	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max.30	ns
Junction Capacitance	C _j	f=1MHz, V _R =10V	TYP 50	pF
Thermal Resistance	j _C	junction to case	Max.3.4	/W

SF5L30

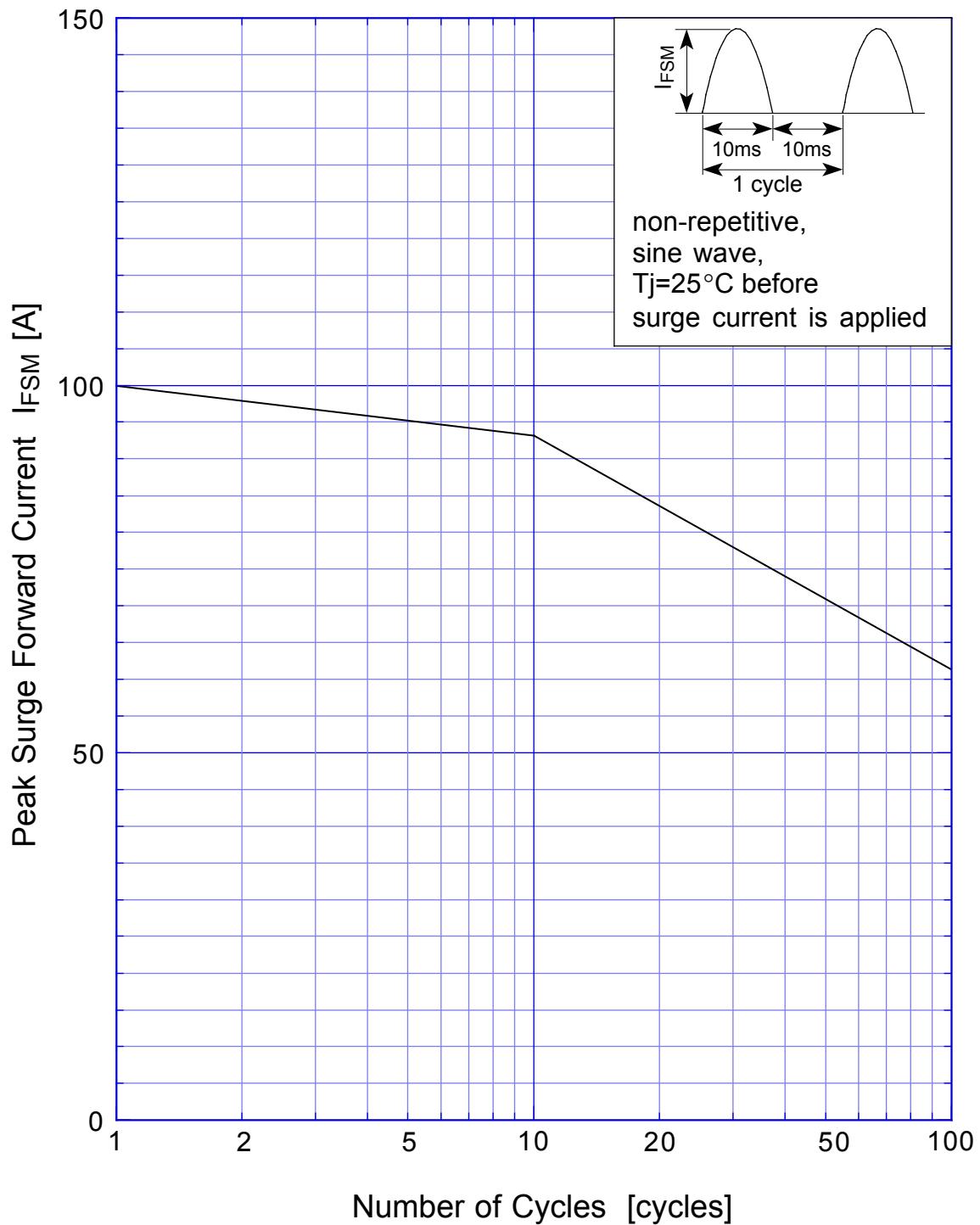
Forward Voltage

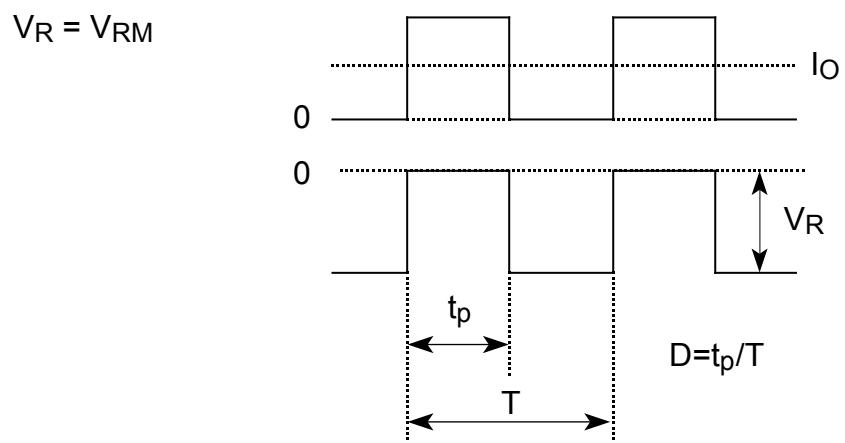
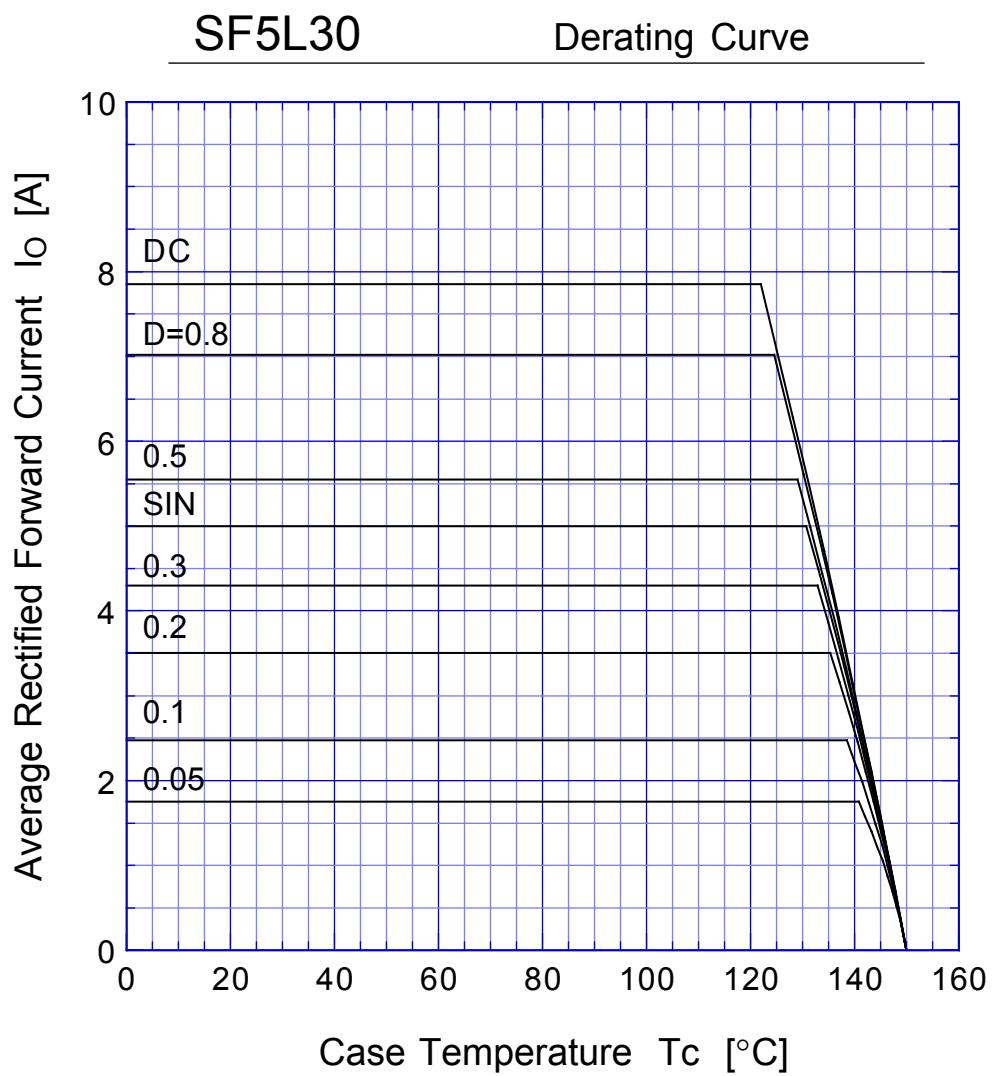




SF5L30

Peak Surge Forward Capability





SF5L30 Junction Capacitance

