

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S30L60

600V 30A

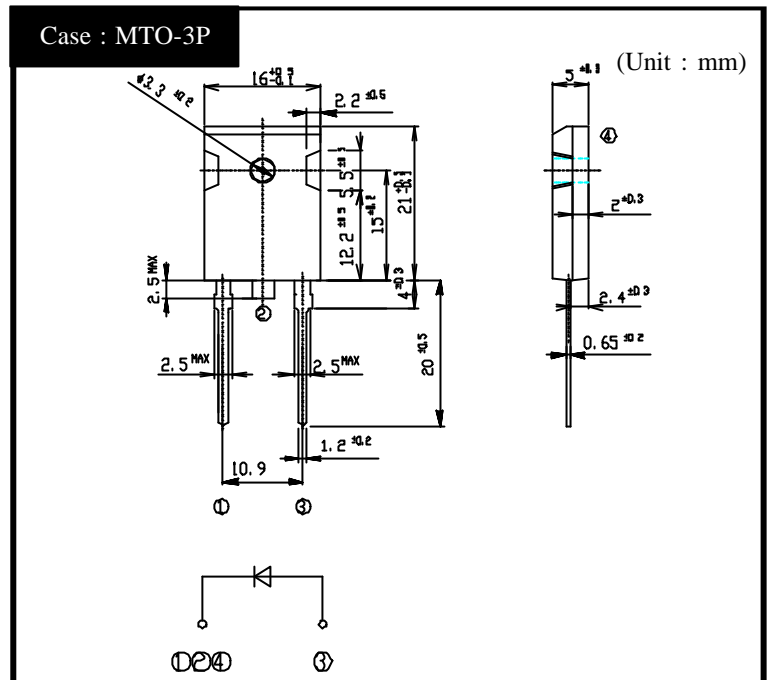
FEATURES

High Voltage
trr150ns
Small jc

APPLICATION

PFC
Switching power supply
Free Wheel
Home Appliances, Office Equipment,
Factory Automation

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

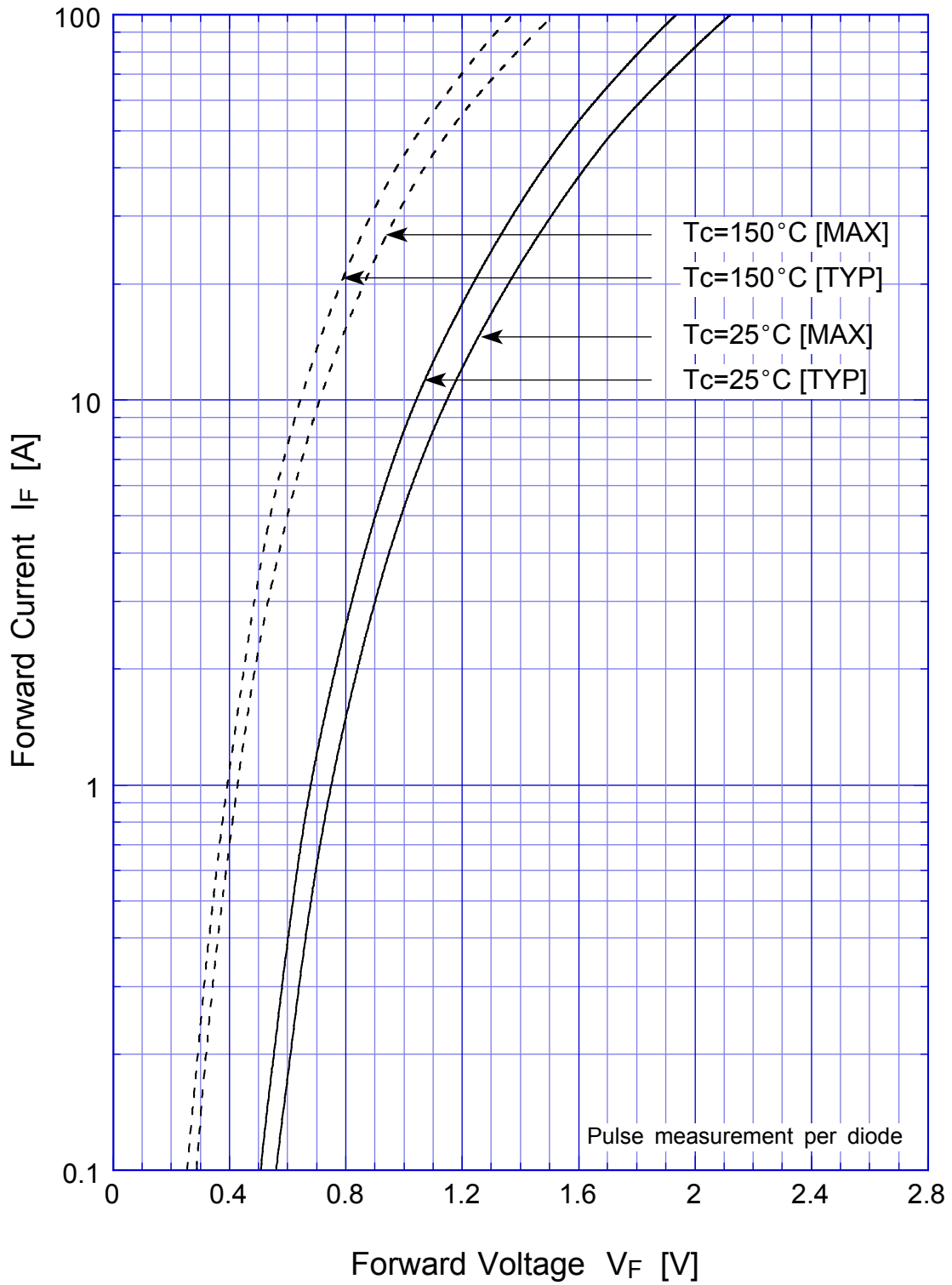
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=117	30	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25	600	A
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N·m

Electrical Characteristics (If not specified Tc=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =30A, Pulse measurement	Max.1.5	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.150	ns
Thermal Resistance	jc	junction to case	Max.0.7	/W

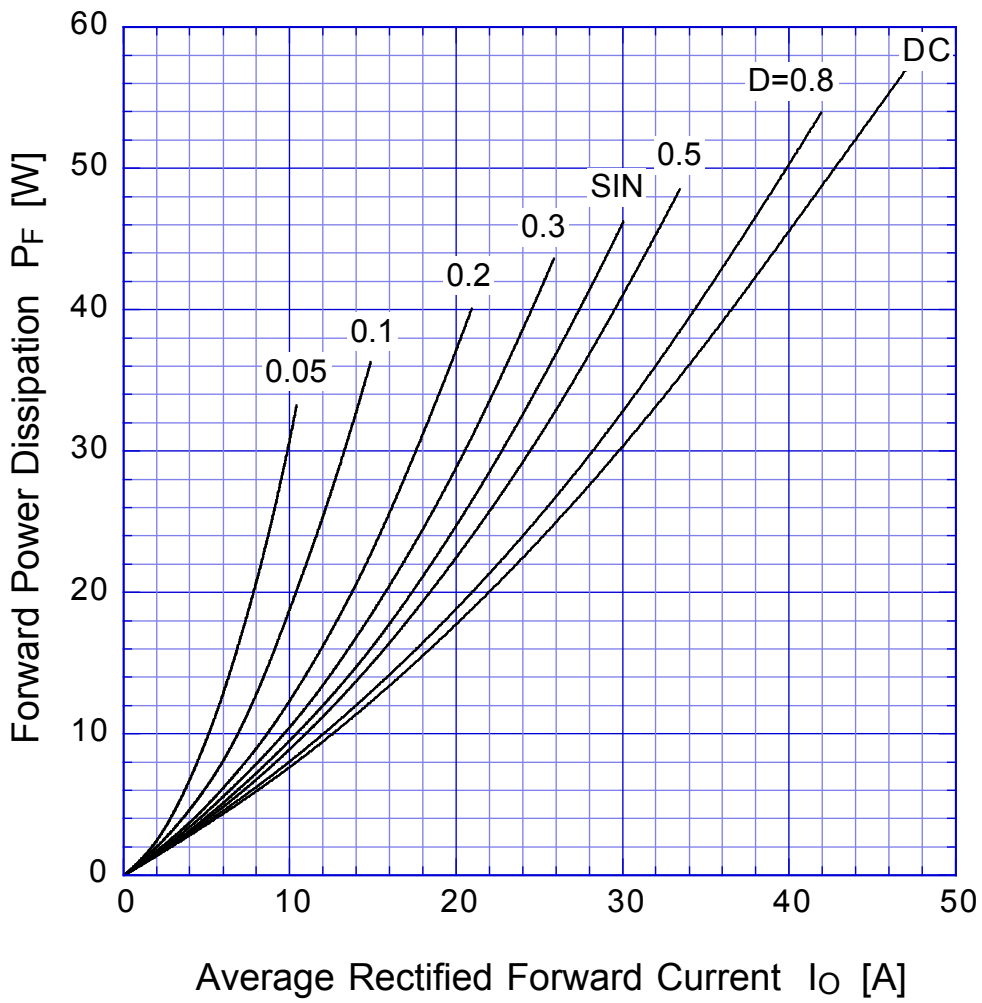
S30L60

Forward Voltage

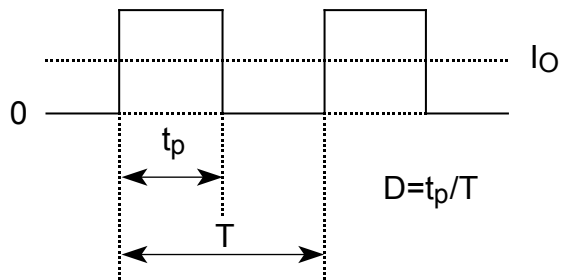


S30L60

Forward Power Dissipation

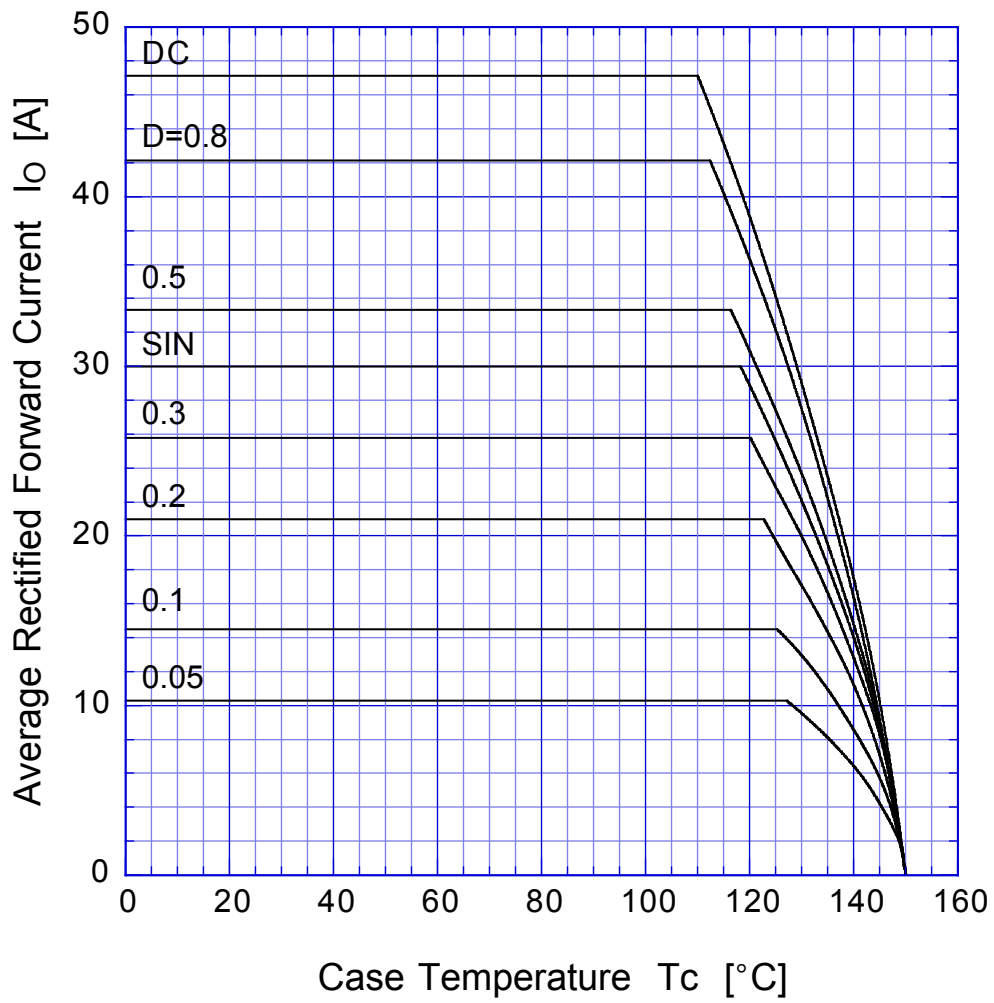


$T_j = T_{jmax}$



S30L60

Derating Curve

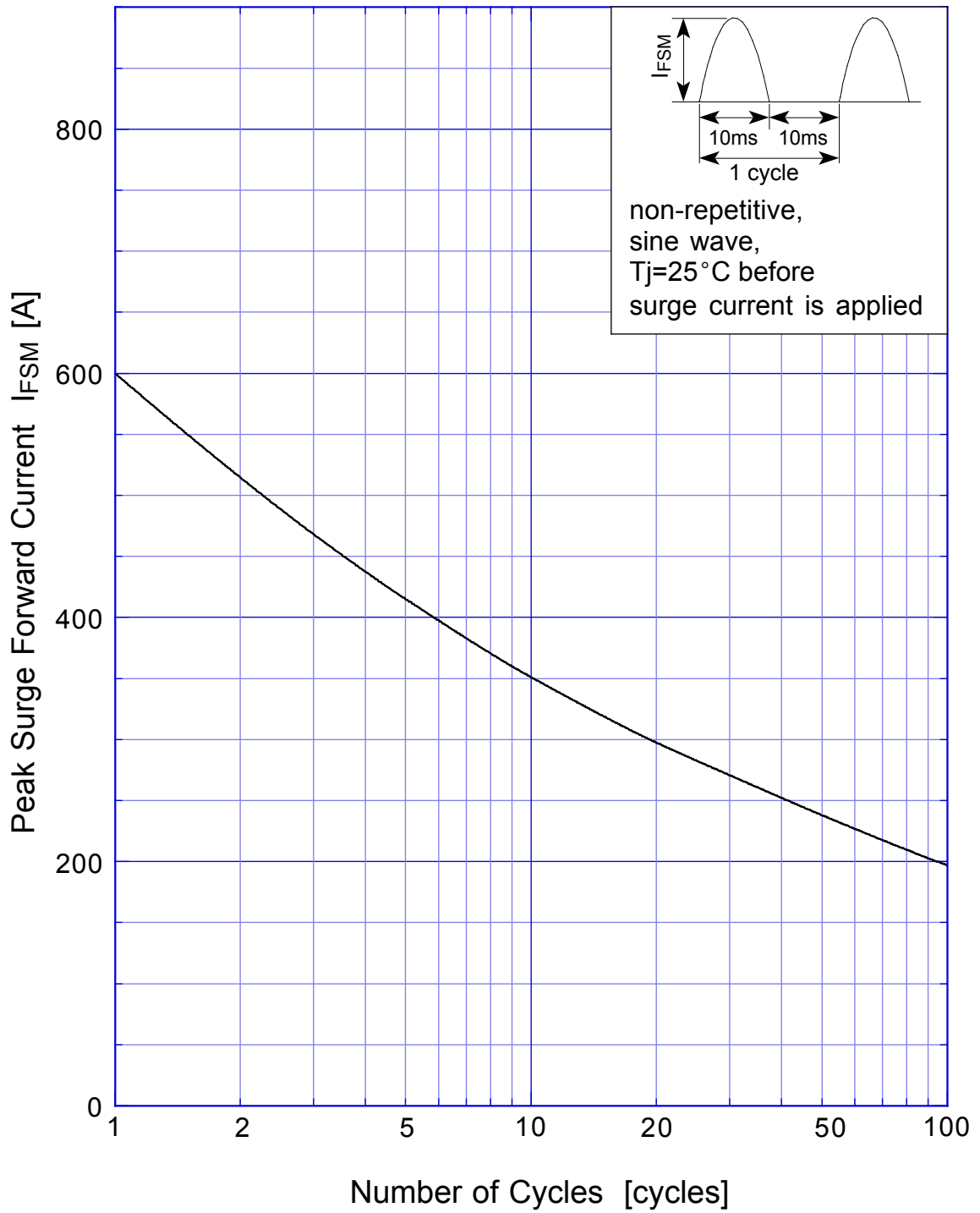


$$V_R = V_{RM}$$



S30L60

Peak Surge Forward Capability



S30L60 Junction Capacitance

