

SHINDENGEN

Super Fast Recovery Rectifiers

Single

S30L60

600V 30A

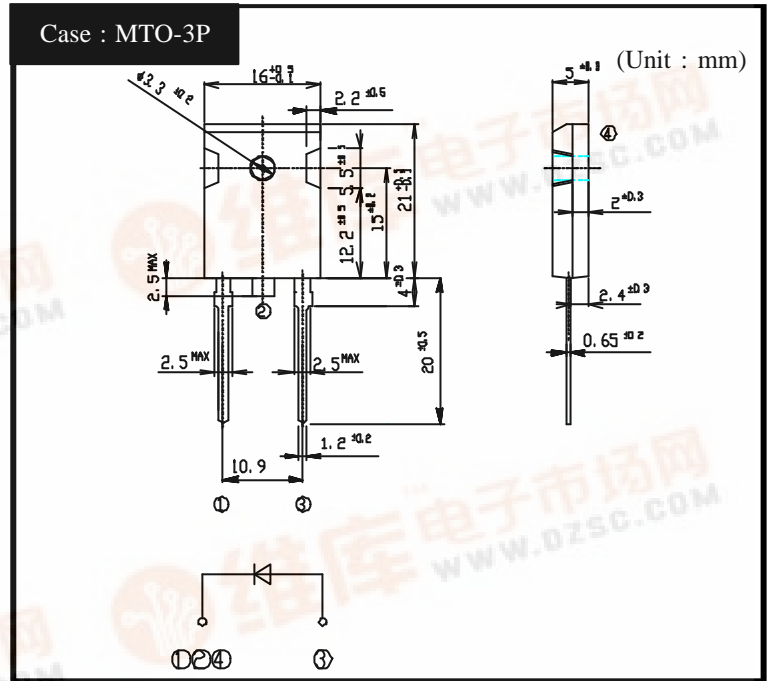
FEATURES

- 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

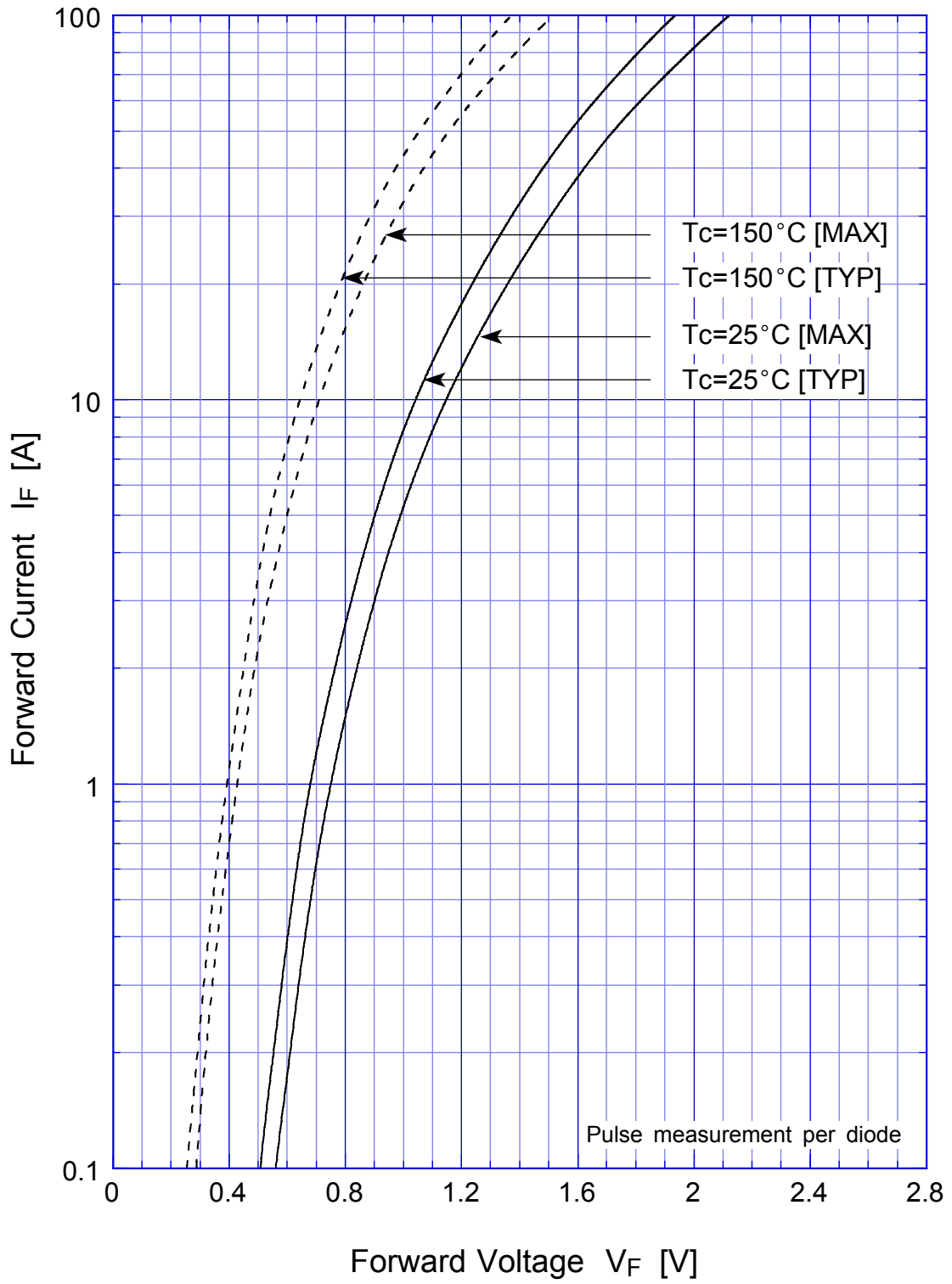
Electrical Characteristics (If not specified Tc=25)

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	t _{rr}	I _F =0.5A, I _R =1A	Max.150	ns
Thermal Resistance	jc	junction to case	Max.0.7	/W



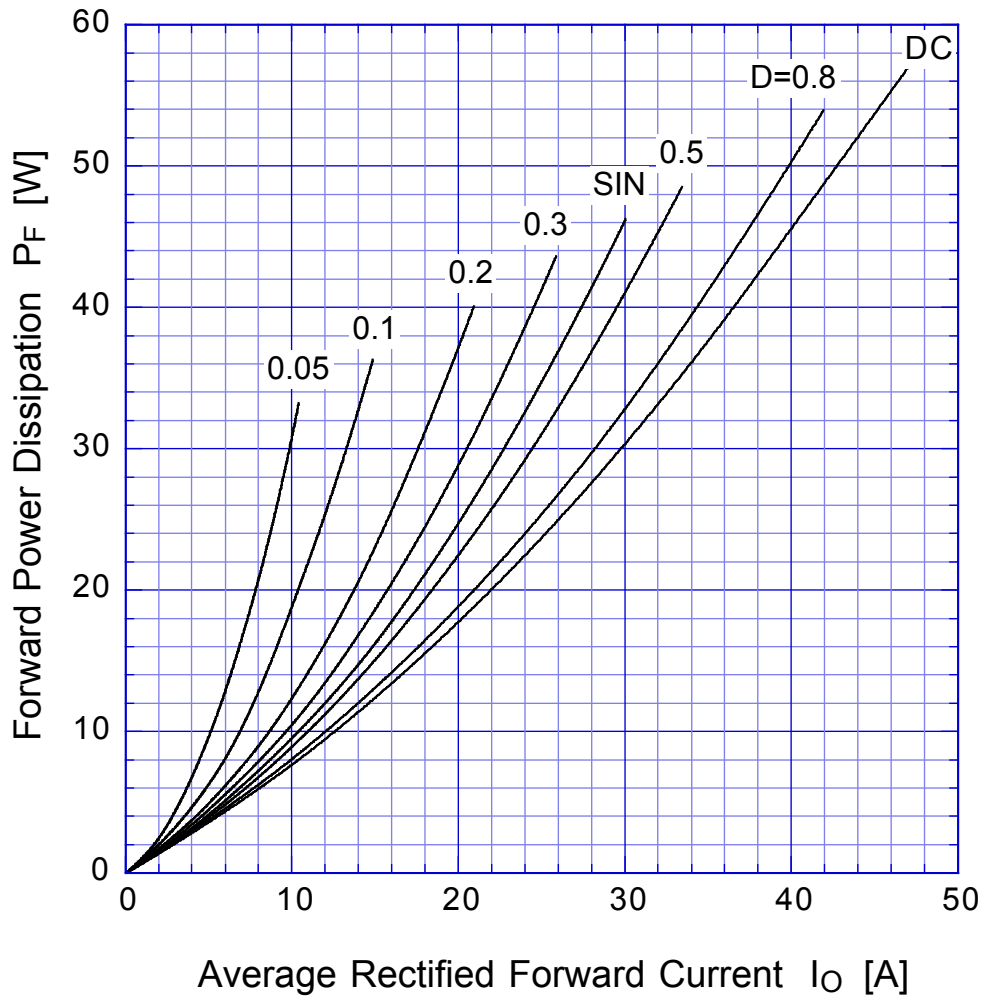
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Forward Voltage

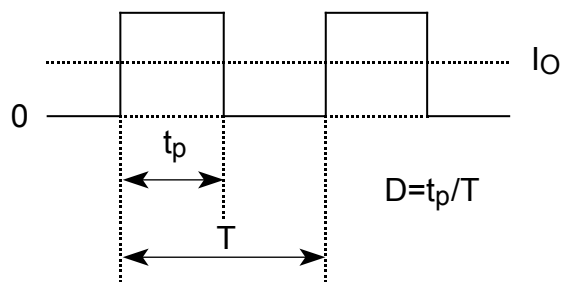


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Forward Power Dissipation

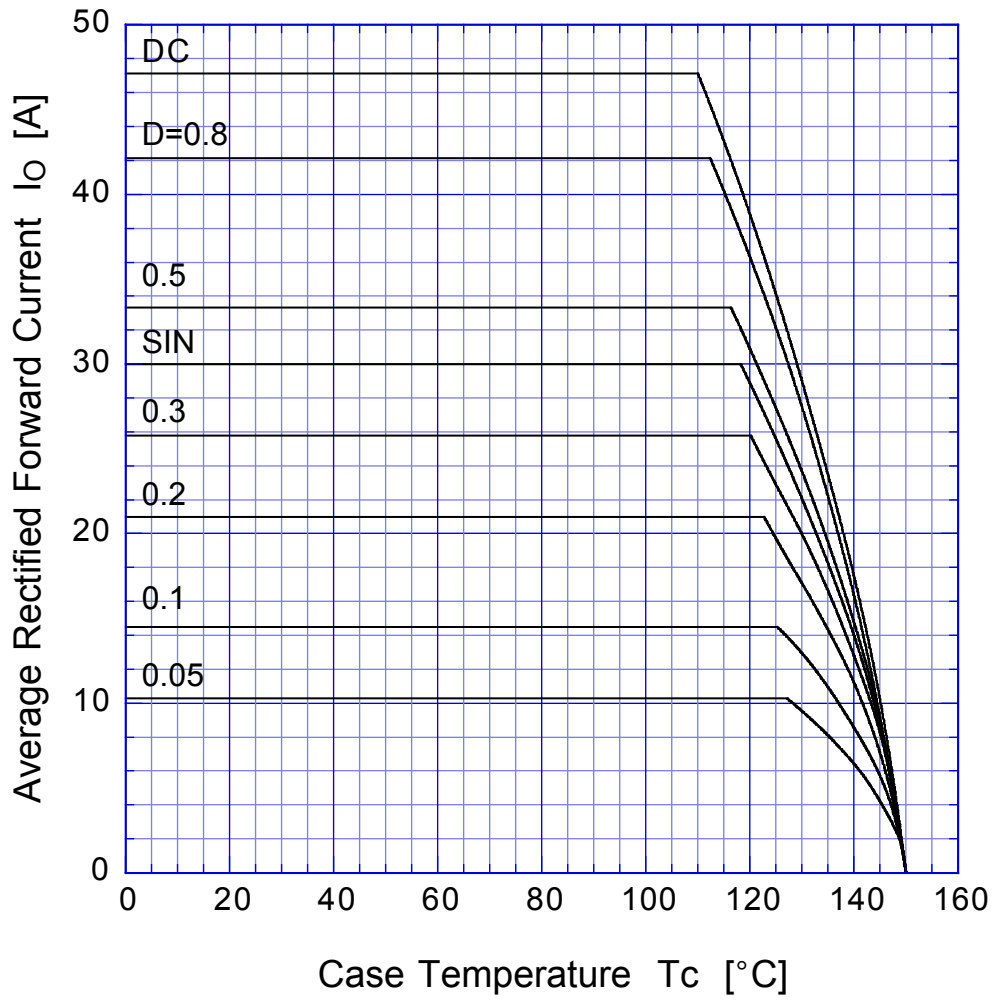


$T_j = T_{jmax}$

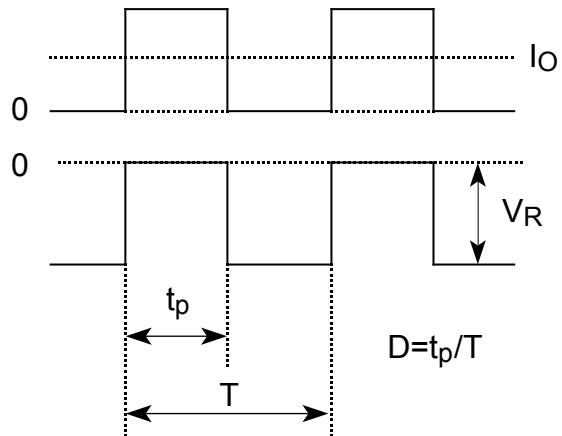


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Derating Curve

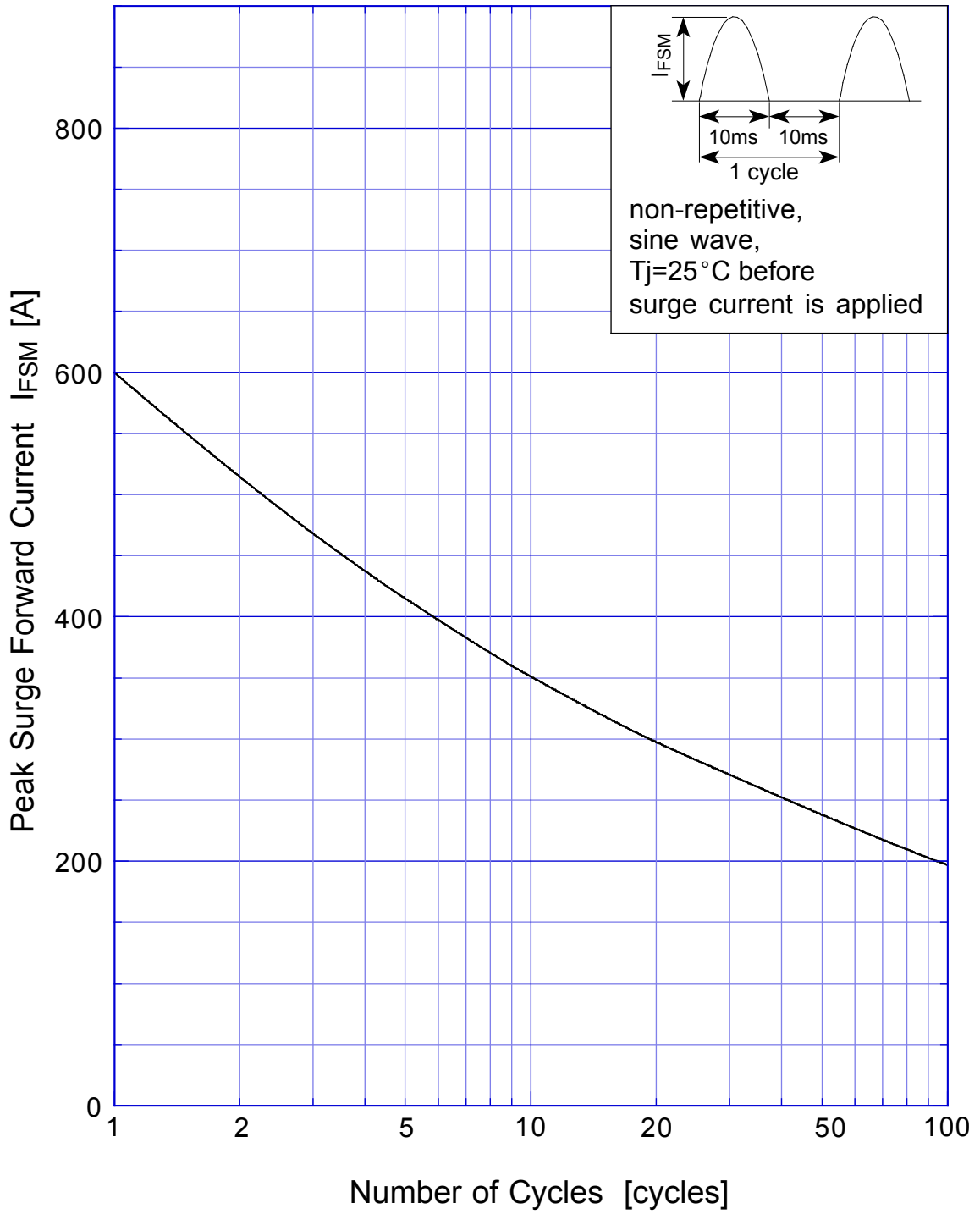


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



S30L60 Junction Capacitance

