

S30L60

600V 30A

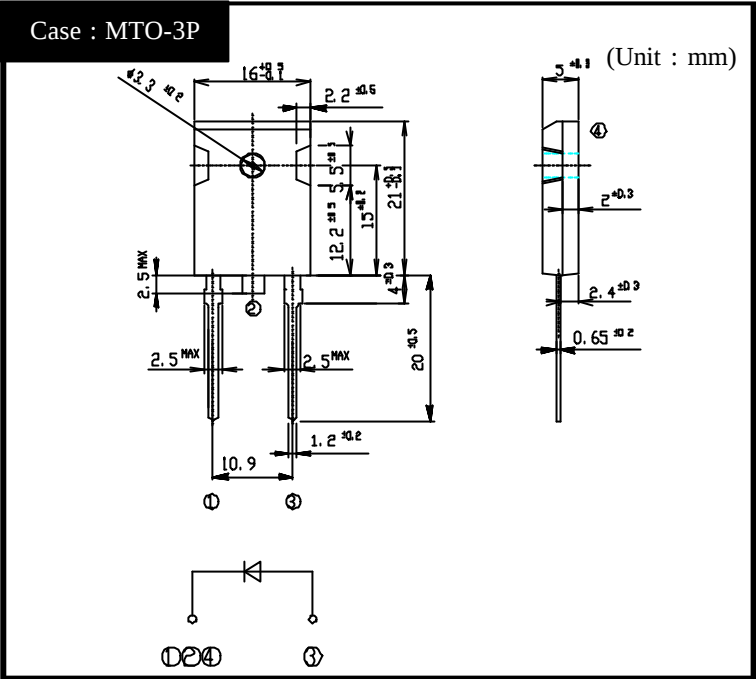
FEATURES

- High Voltage
- trr150ns
- Small θ_{jc}

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

• Absolute Maximum Ratings (If not specified $T_c=25$)

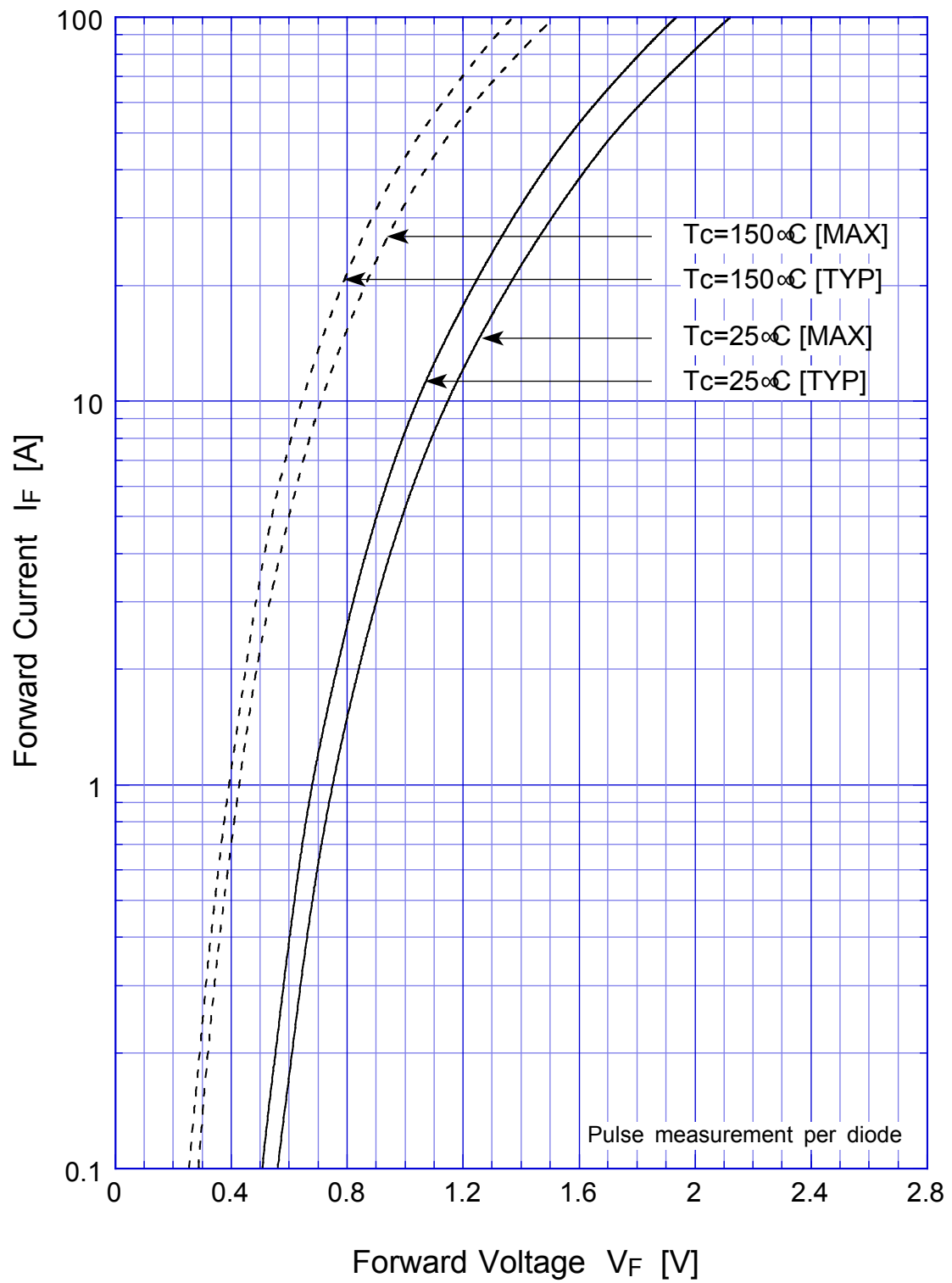
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load, $T_c=117$	30	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle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

• Electrical Characteristics (If not specified $T_c=25$)

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	θ_{jc}	junction to case	Max.0.7	/W

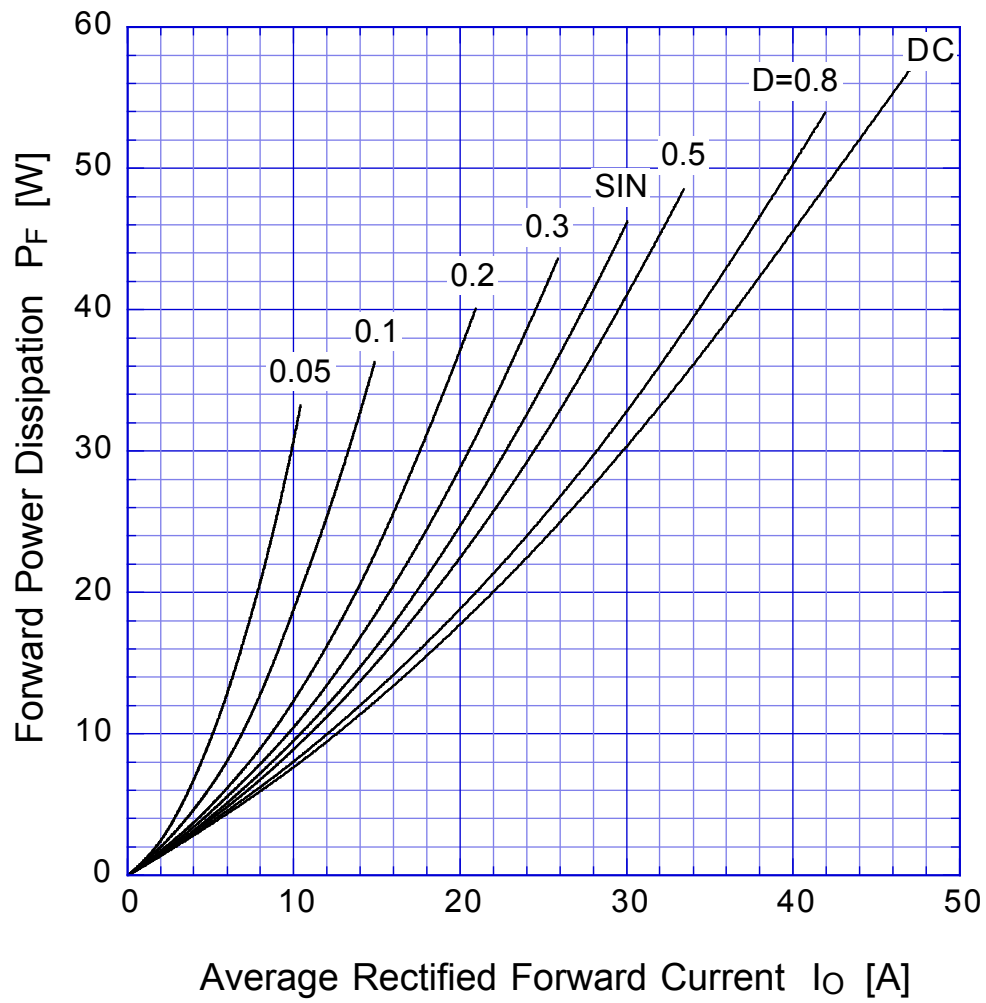
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Forward Voltage



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Forward Power Dissipation

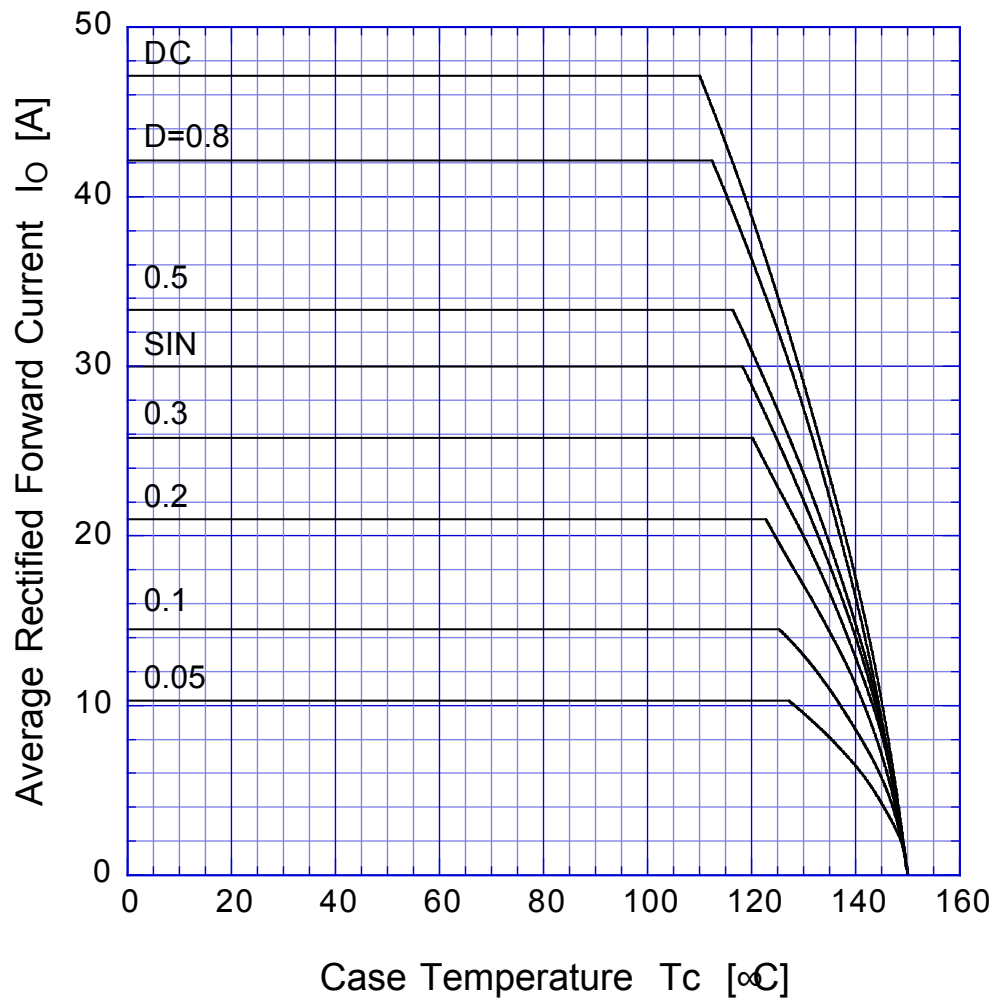


$T_j = T_{jmax}$

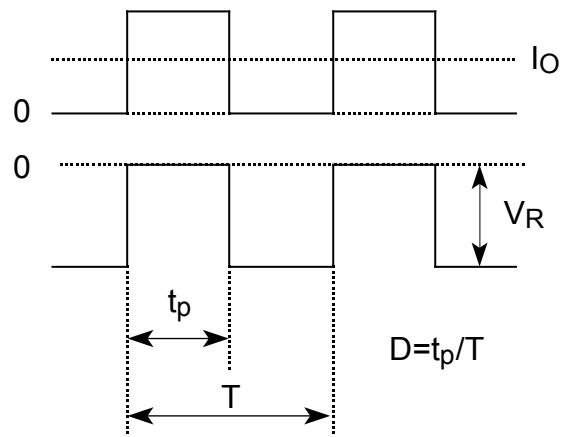


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Derating Curve

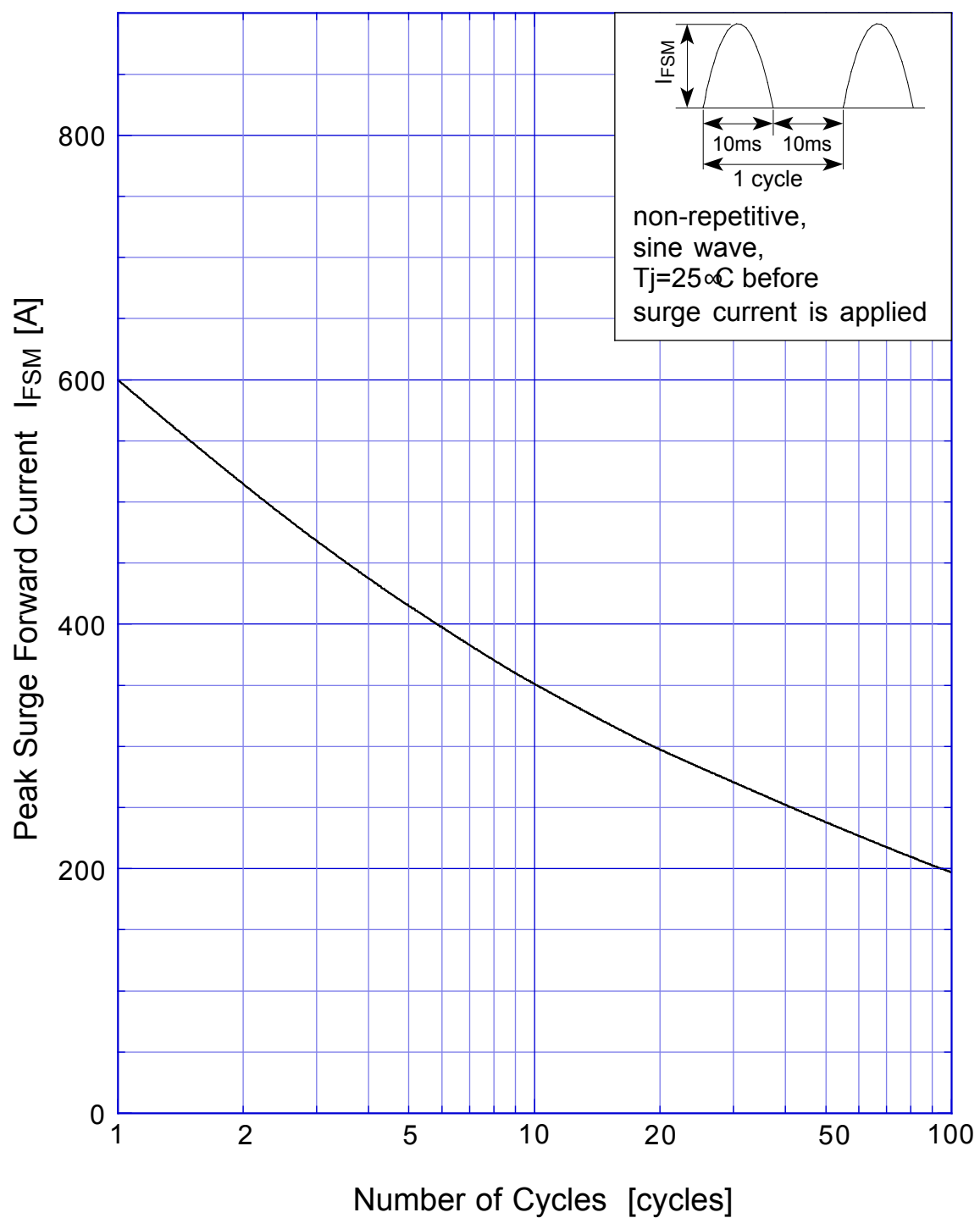


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



S30L60 Junction Capacitance

