

D30L60

600V 30A

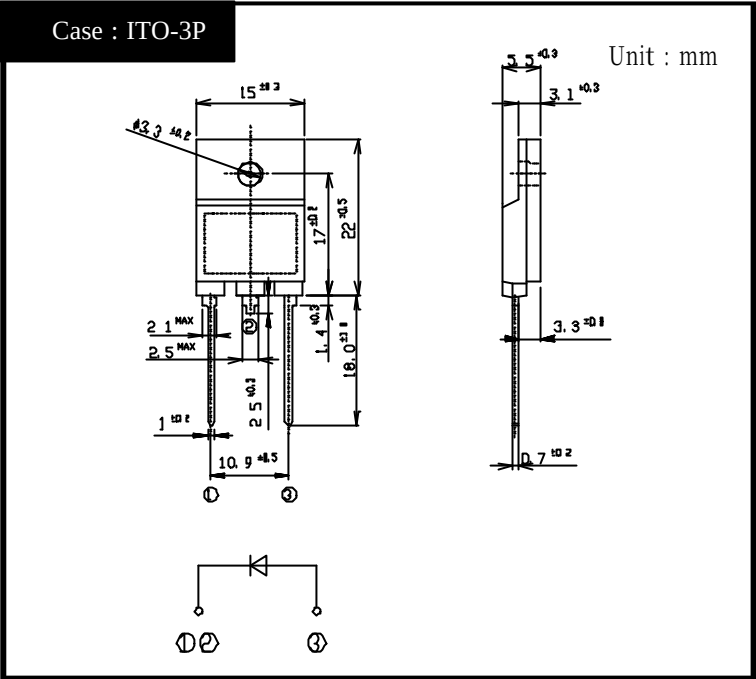
FEATURES

- Low noise
- trr150ns
- Fully Isolated Molding

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

●Absolute Maximum Ratings (If not specified Tc=25°C)

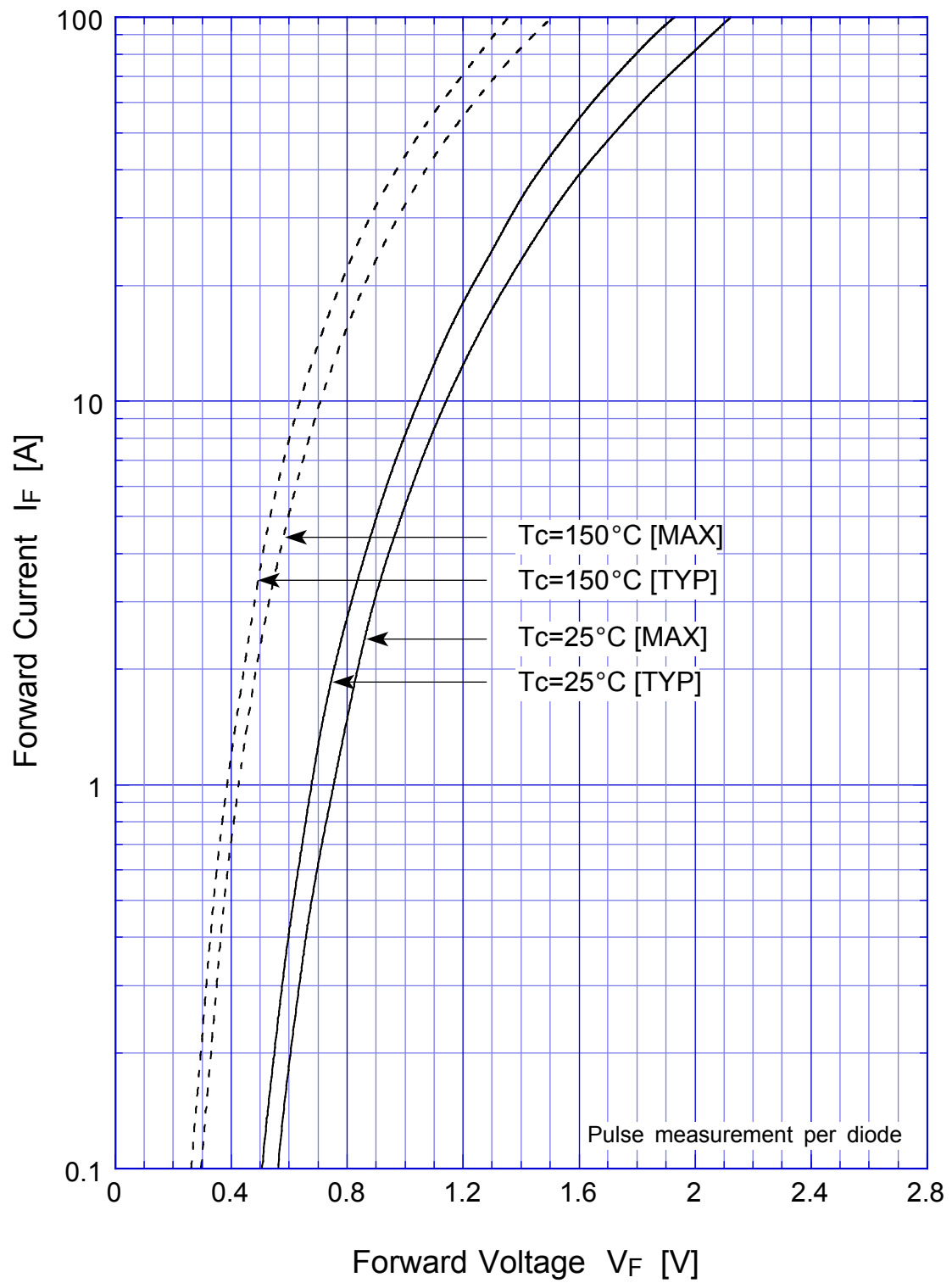
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Tc=85°C	30	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	600	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque 0.5N·m)	0.8	N·m

●Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=30A, Pulse measurement	Max.1.5	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.25	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1.0A	MAX.150	ns
Thermal Resistance	θjc	Junction to case	Max.1.4	°C/W

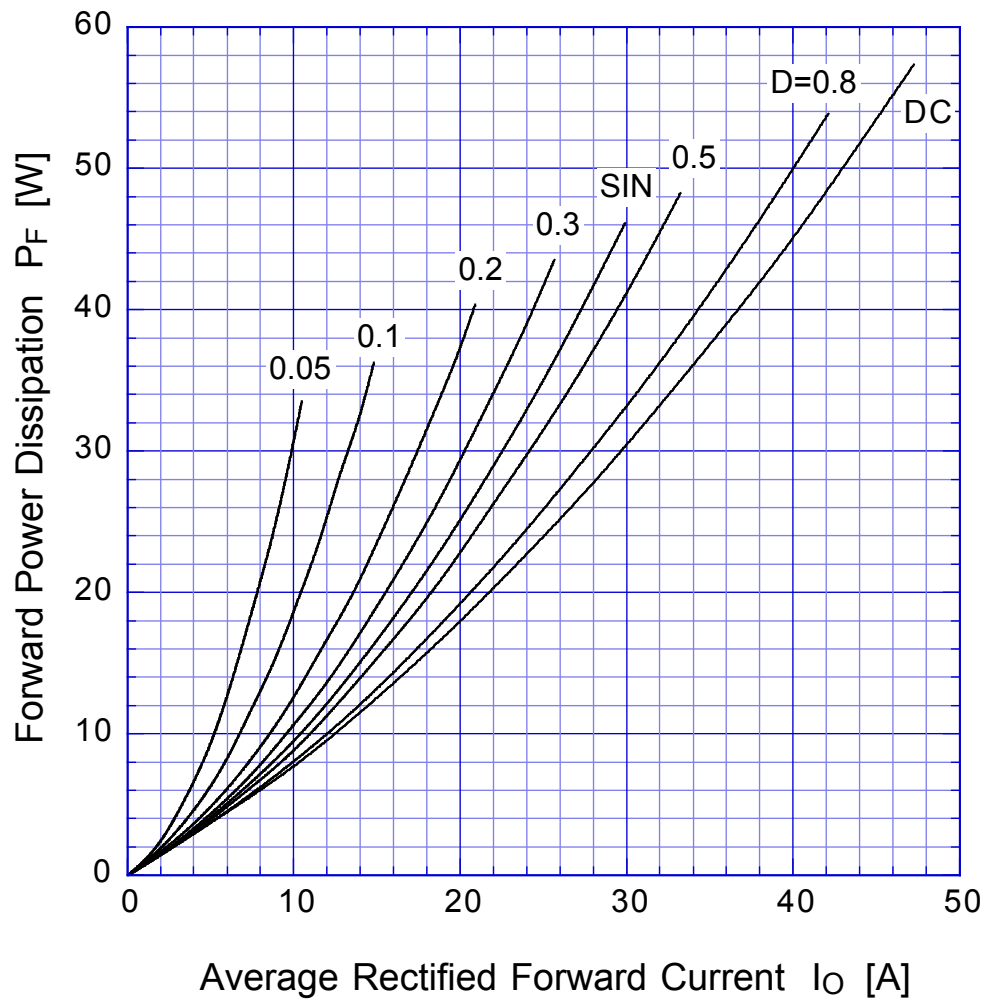
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Forward Voltage

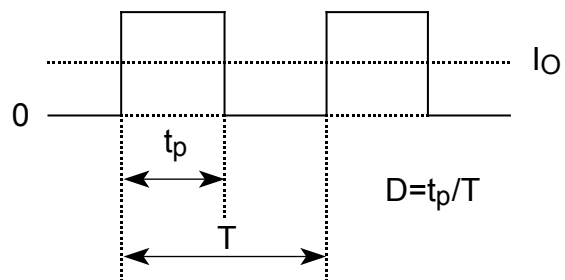


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Forward Power Dissipation

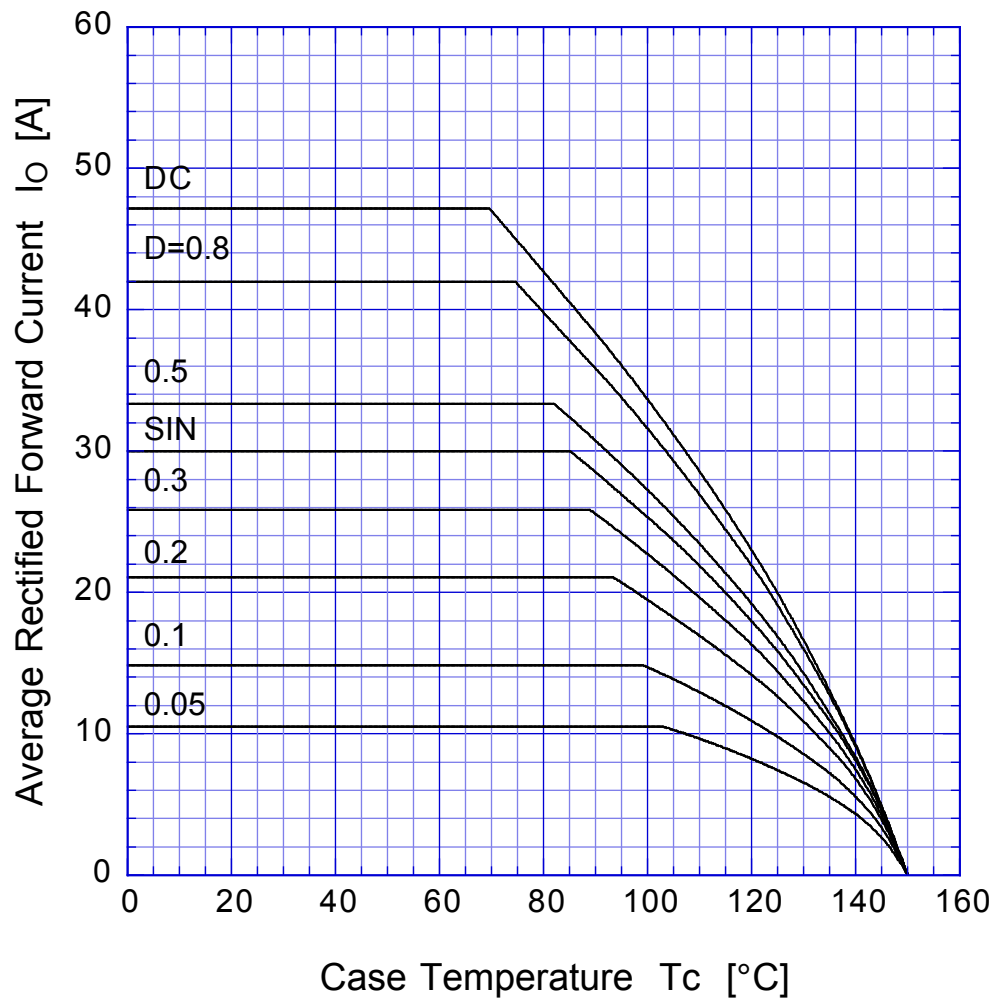


$T_j = 150^\circ\text{C}$

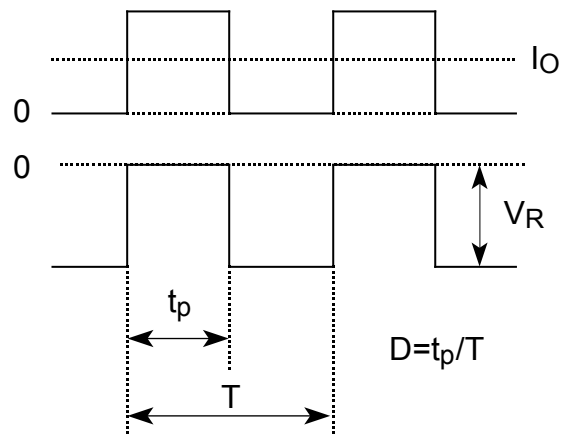


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Derating Curve

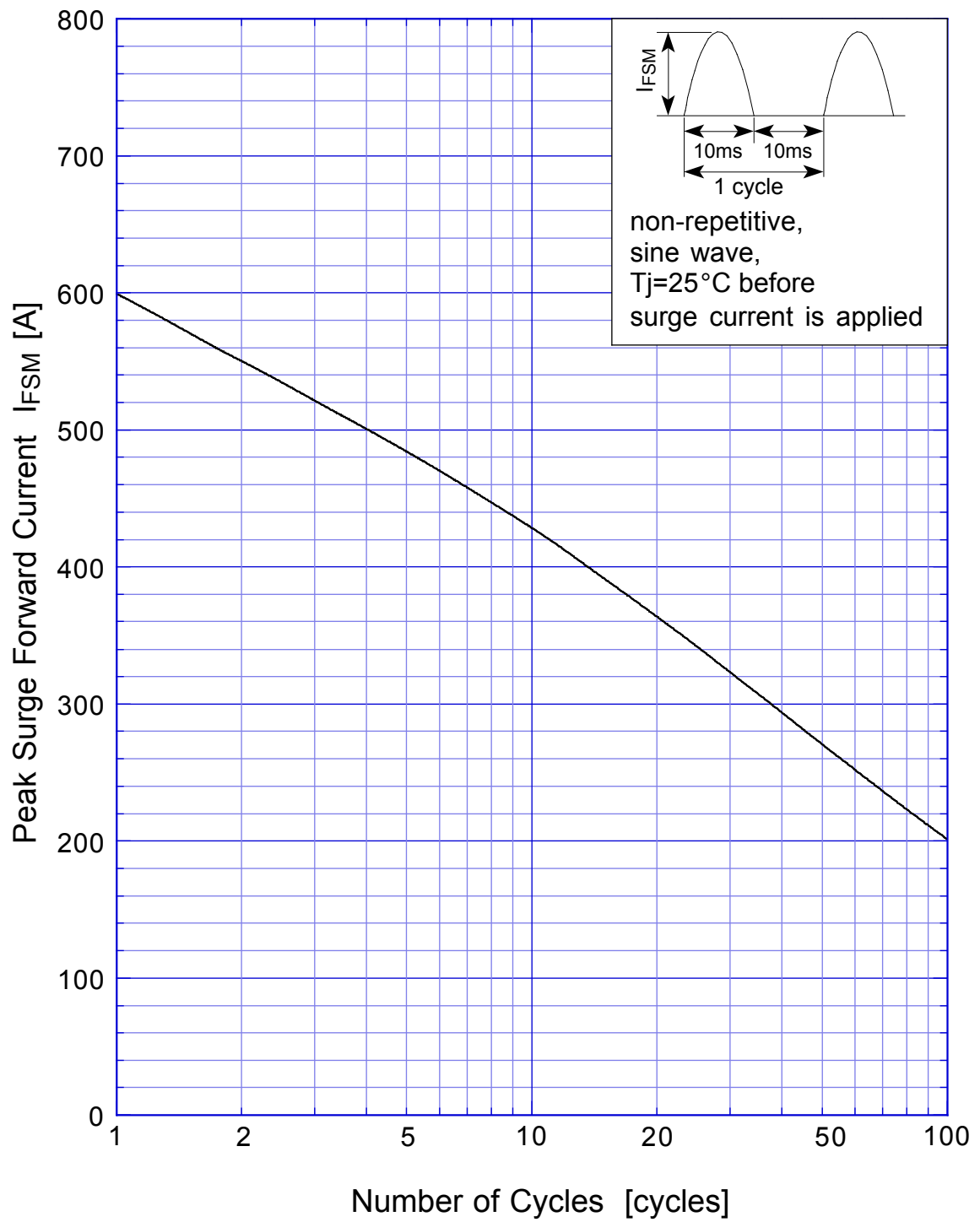


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



D30L60 Junction Capacitance

