

S16L60

600V 16A

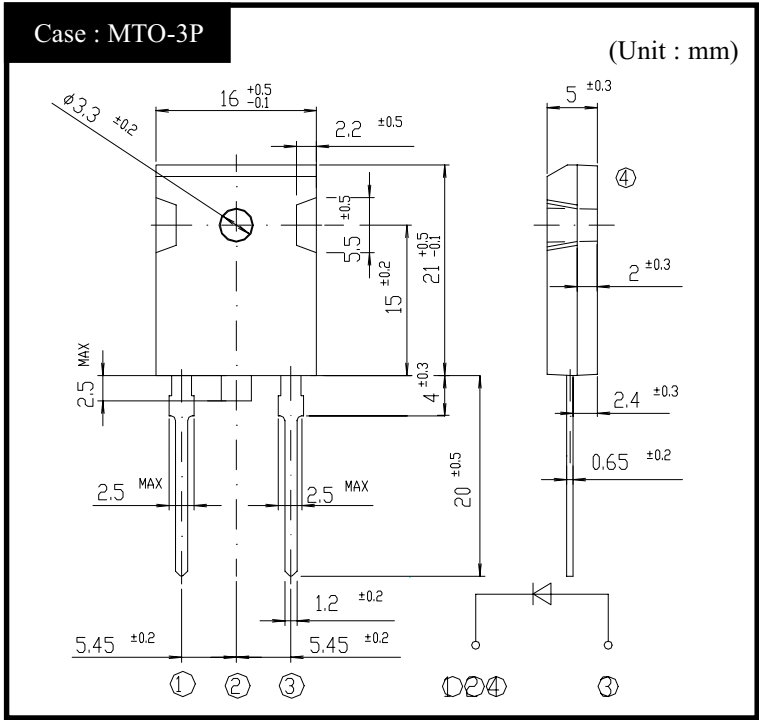
FEATURES

- High Voltage
- trr100ns
- 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 Tc=25°C)

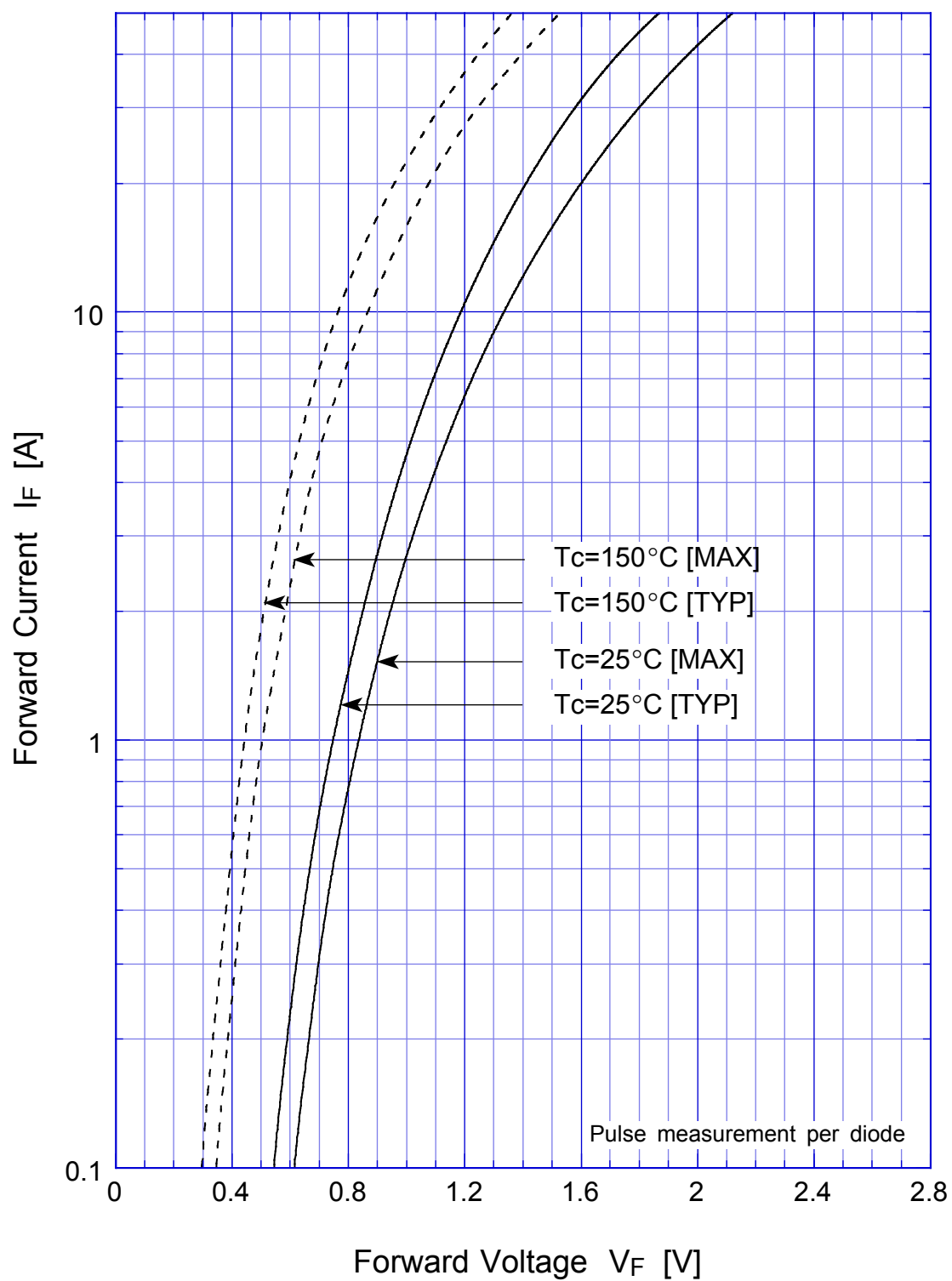
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		600	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Tc=122°C	16	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	300	A
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=16A, Pulse measurement	Max.1.5	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.25	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.100	ns
Thermal Resistance	θ_{jc}	junction to case	Max.1.1	°C/W

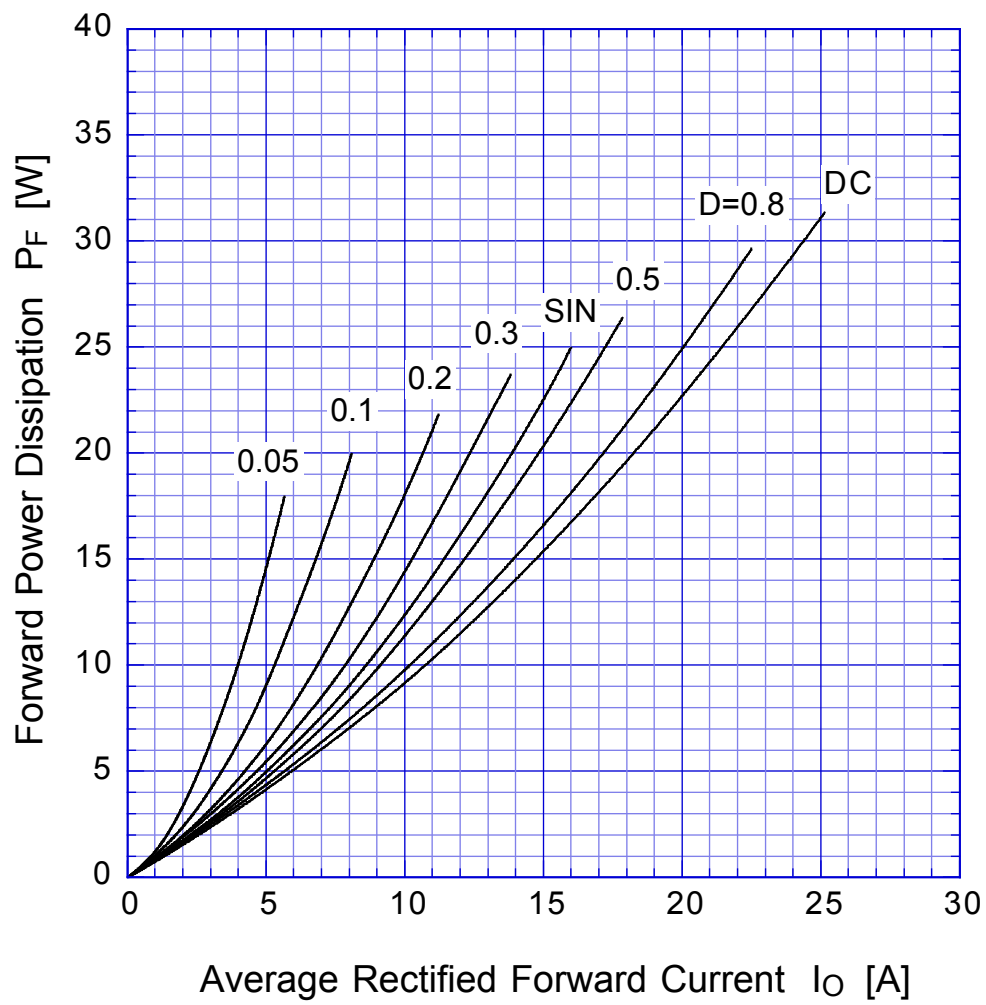
S16L60

Forward Voltage



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Forward Power Dissipation

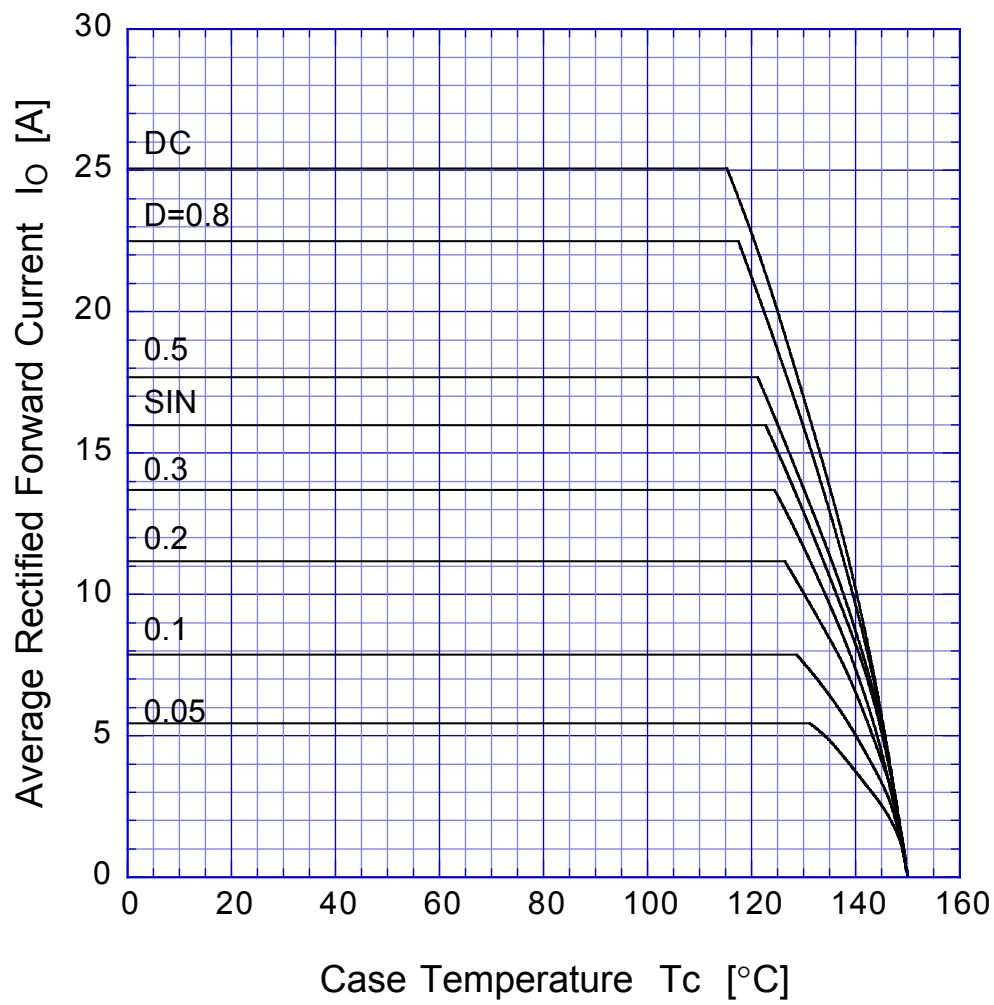


$T_j = T_{jmax}$

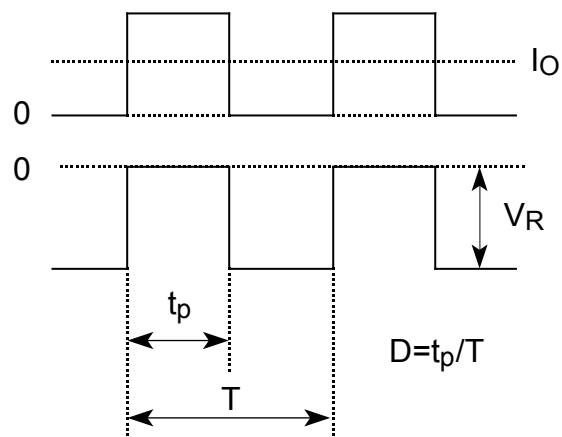


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Derating Curve

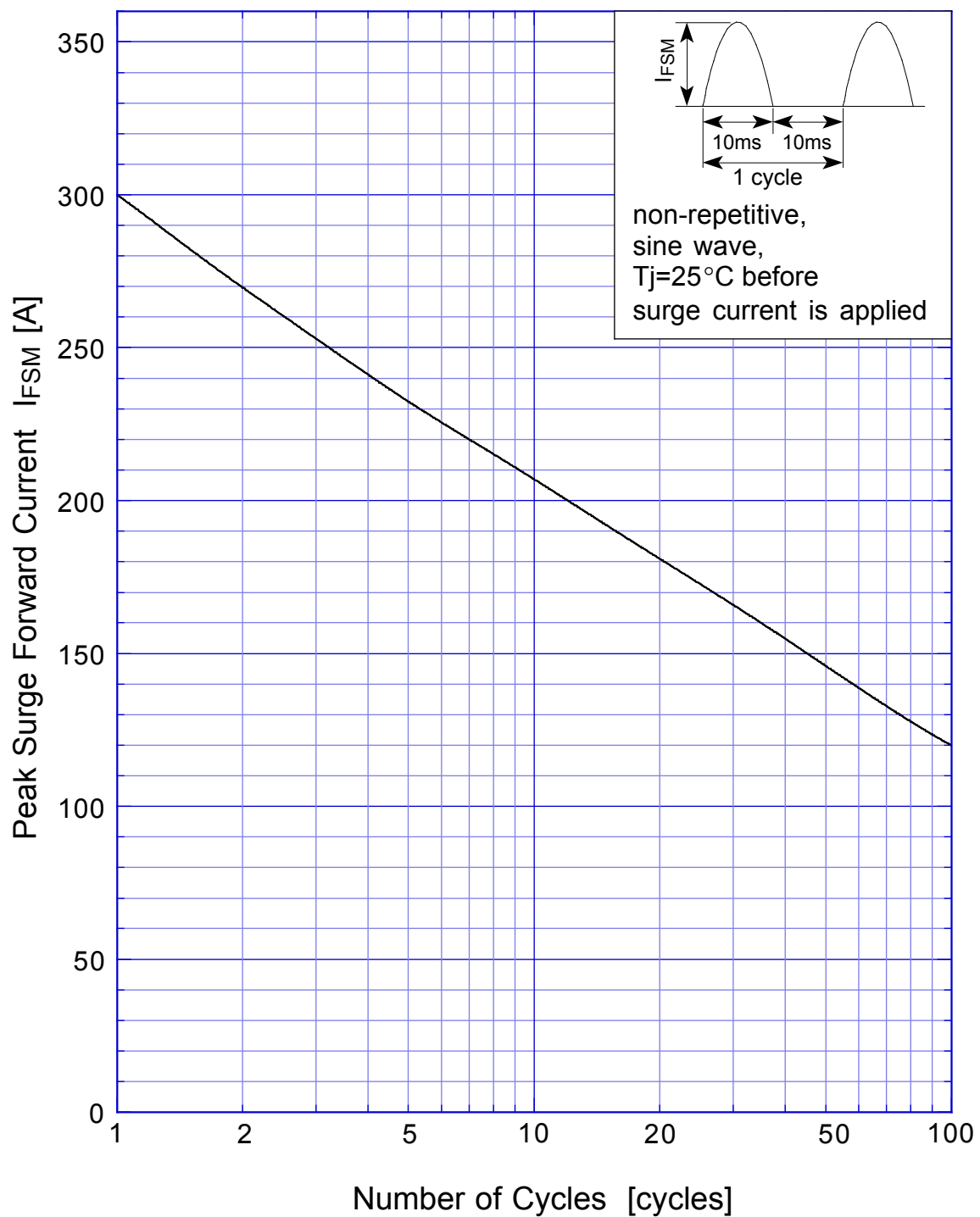


$$V_R = V_{RM}$$



S16L60

Peak Surge Forward Capability



S16L60 Junction Capacitance

