

S20L60

600V 20A

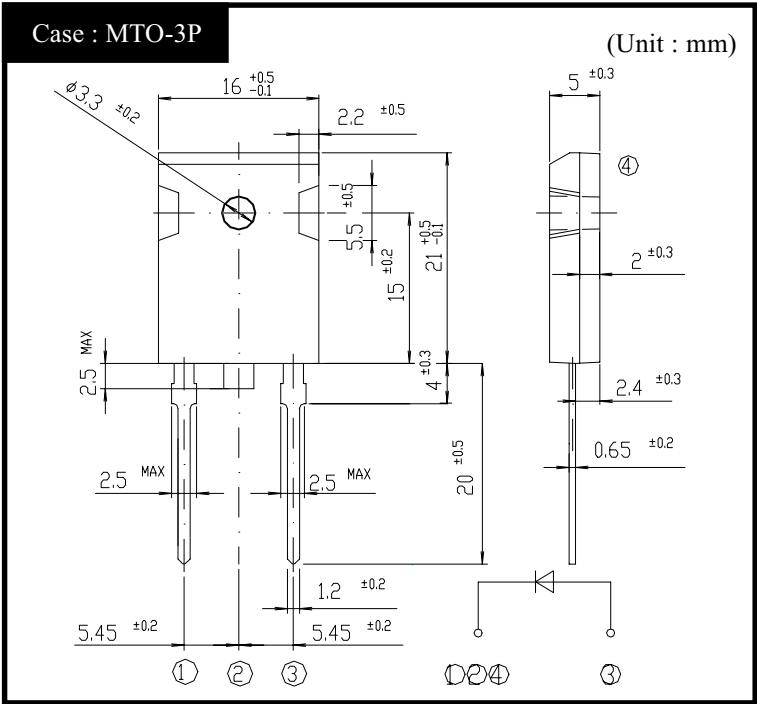
FEATURES

- 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)

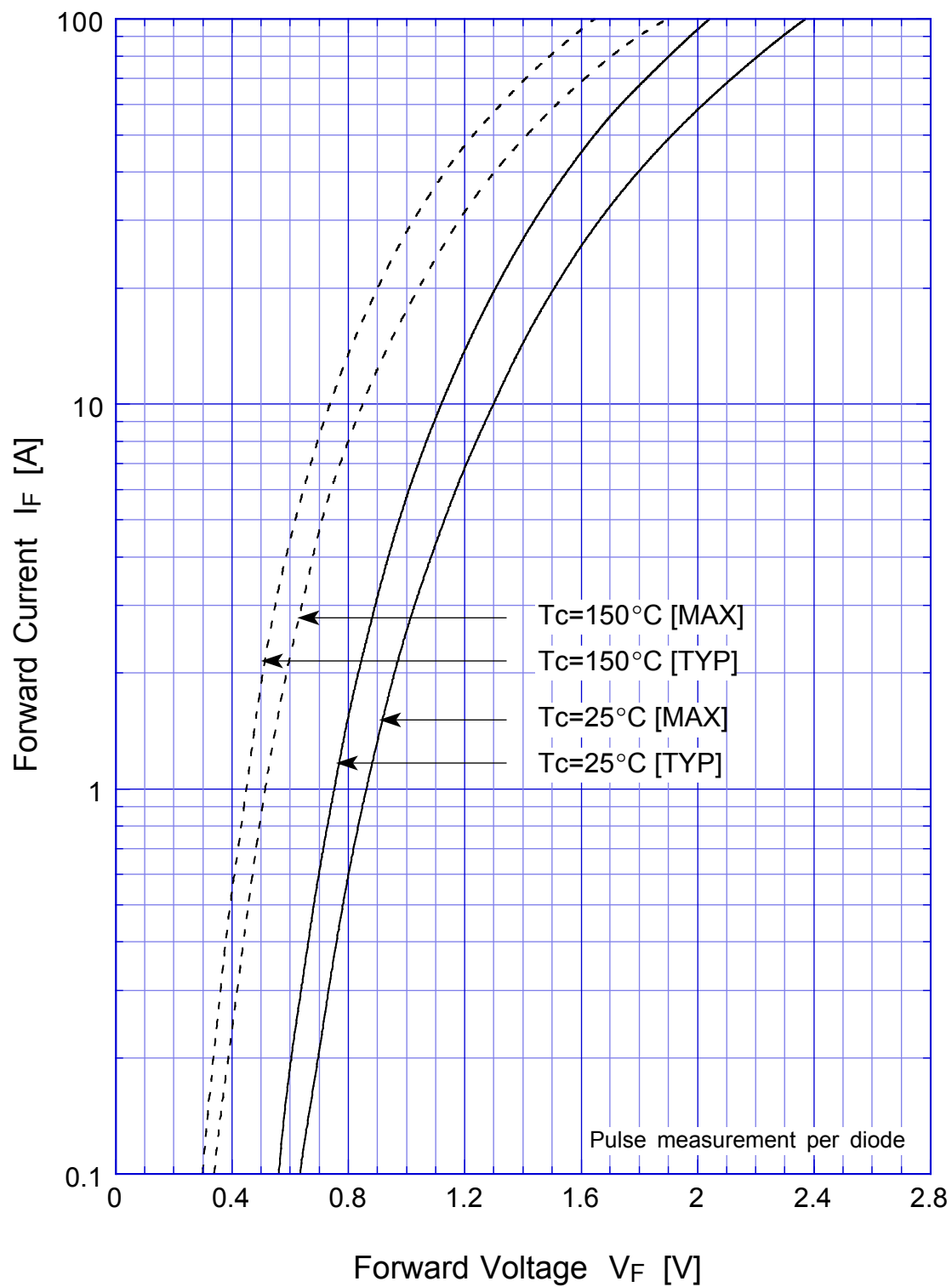
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, T _c =119°C	20	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	400	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	V _F	I _F =20A, 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.100	ns
Thermal Resistance	θ _{jc}	junction to case	Max.0.9	°C/W

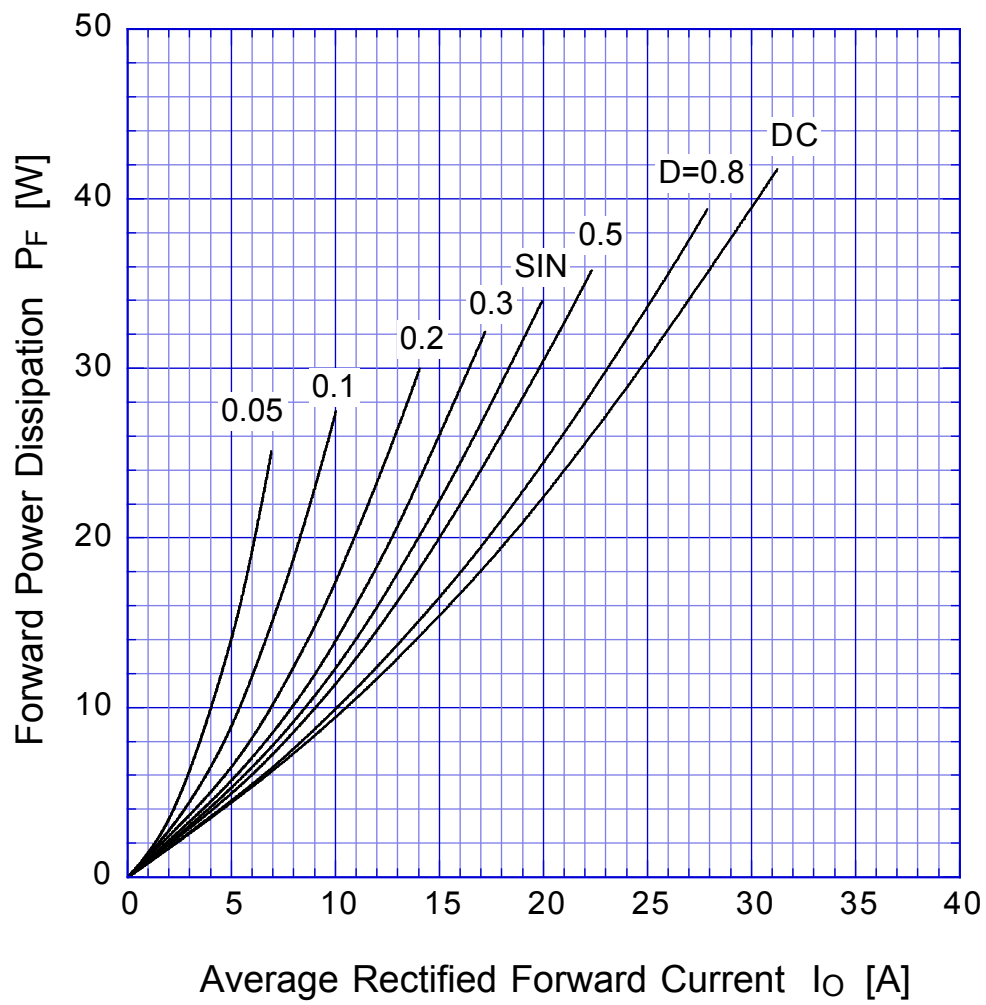
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Forward Voltage



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Forward Power Dissipation

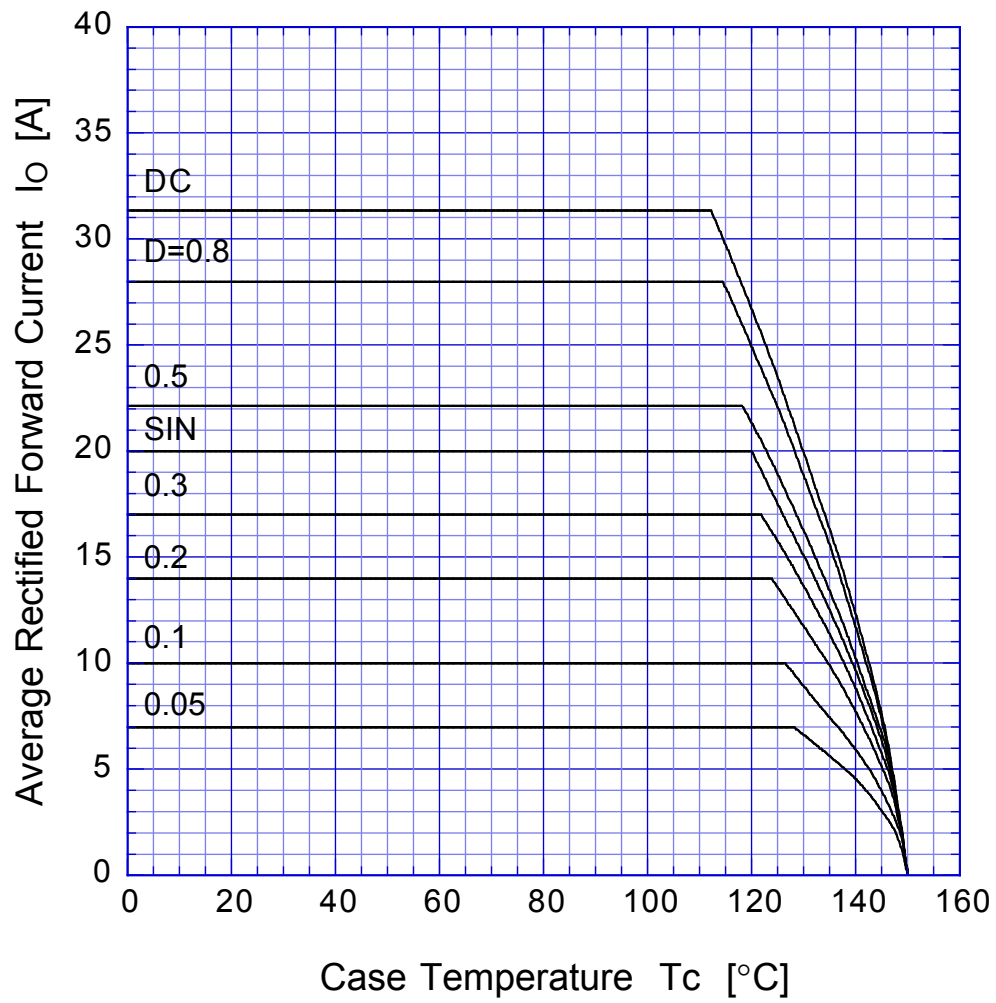


$T_j = T_{jmax}$

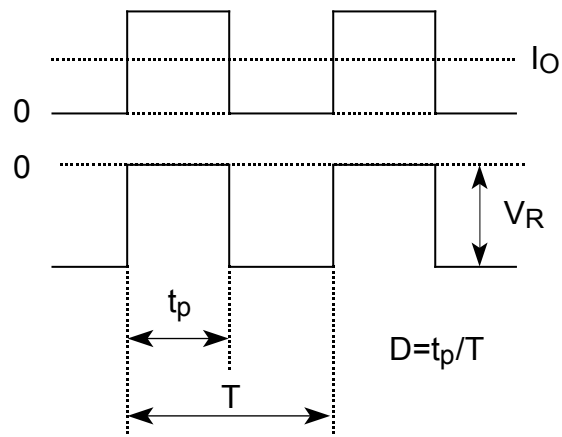


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Derating Curve

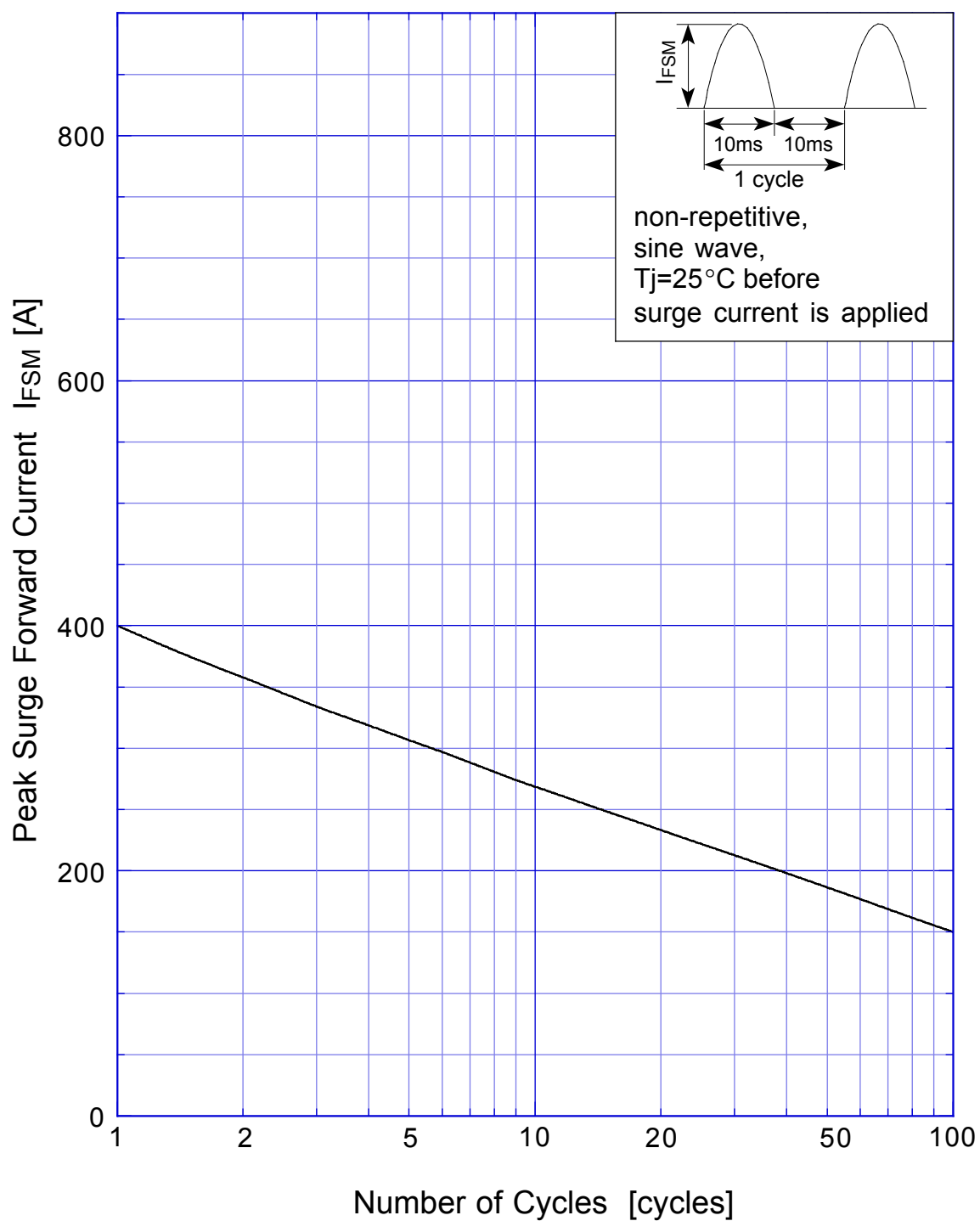


$$V_R = V_{RM}$$



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Peak Surge Forward Capability



S20L60 Junction Capacitance

