

S20LC20U

200V 20A

FEATURES

- Low noise
- trr35ns
- Small θ_{jc}
- Dielectric strength 2kV guaranteed

APPLICATION

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

RATINGS

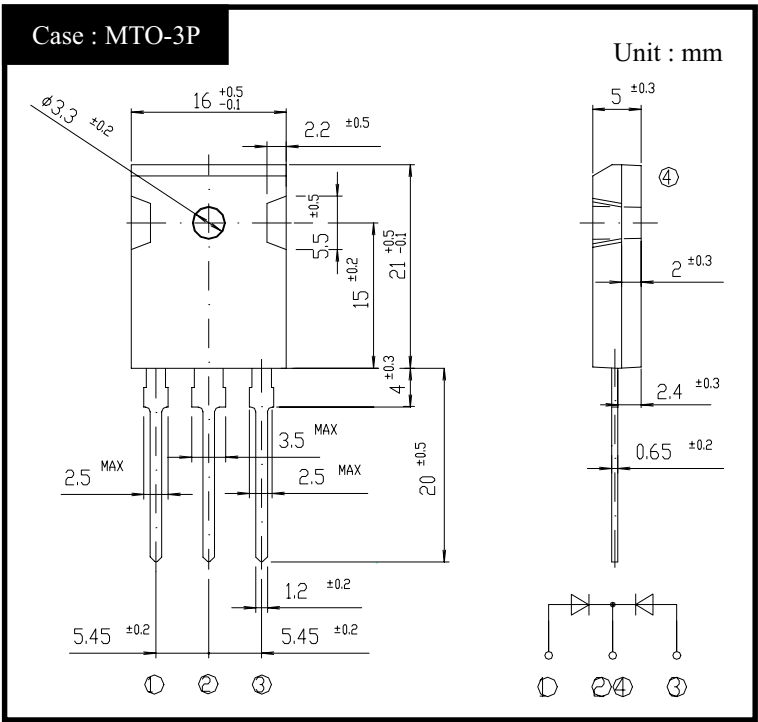
●Absolute Maximum Ratings (If not specified $T_c=25^{\circ}\text{C}$)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		200	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Rating for each diode $I_o/2$, $T_c=123^{\circ}\text{C}$	20	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^{\circ}\text{C}$	140	A
Mounting Torque	TOR	(Recommended torque:0.5N·m)	0.8	N·m

●Electrical Characteristics (If not specified $T_c=25^{\circ}\text{C}$)

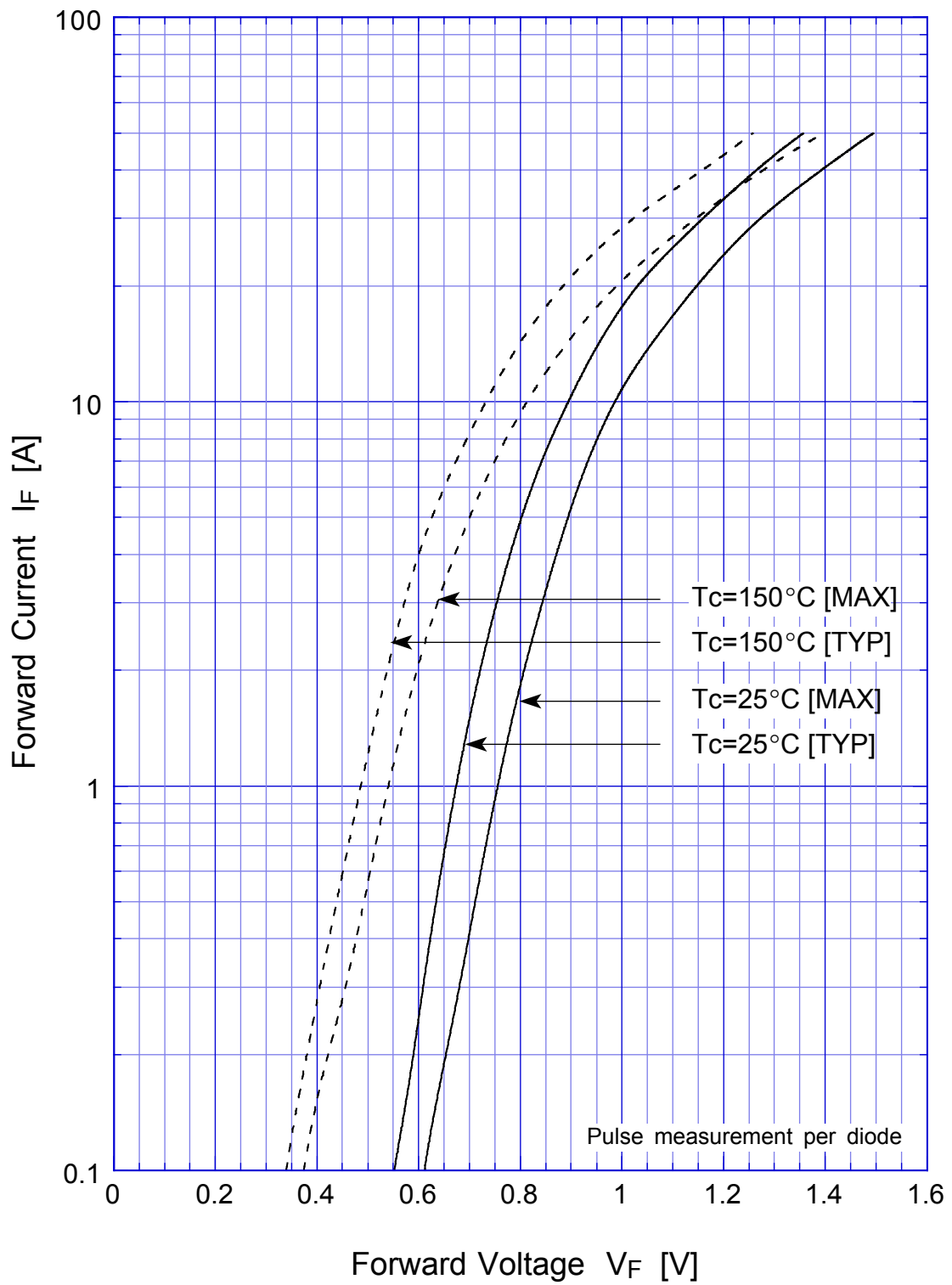
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=10A, Pulse measurement, Rating of per diode	Max.0.98	V
Reverse Current	IR	VR=VRM, Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A, Rating of per diode	Max.35	ns
Thermal Resistance	θjc	junction to case	Max.1.2	°C/W

OUTLINE DIMENSIONS

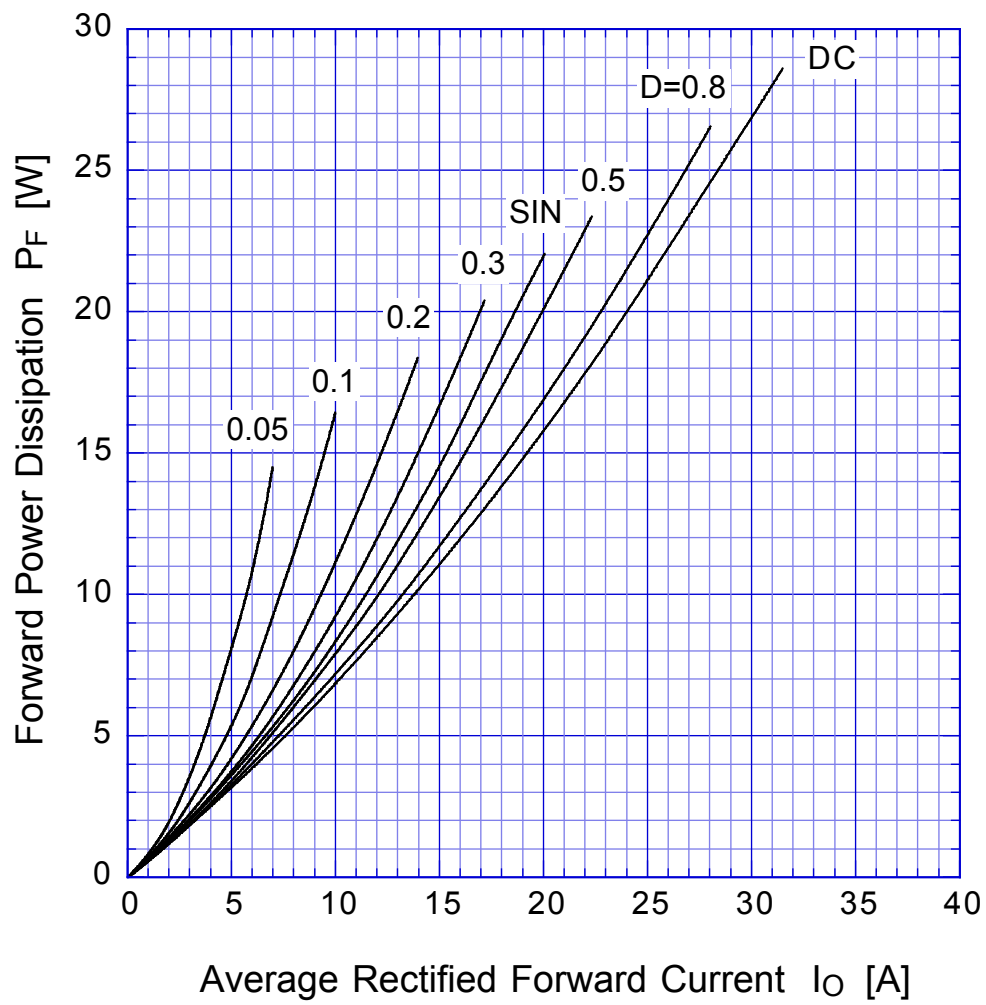


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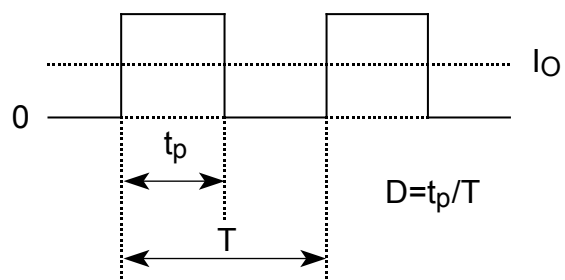
Forward Voltage



S20LC20U Forward Power Dissipation

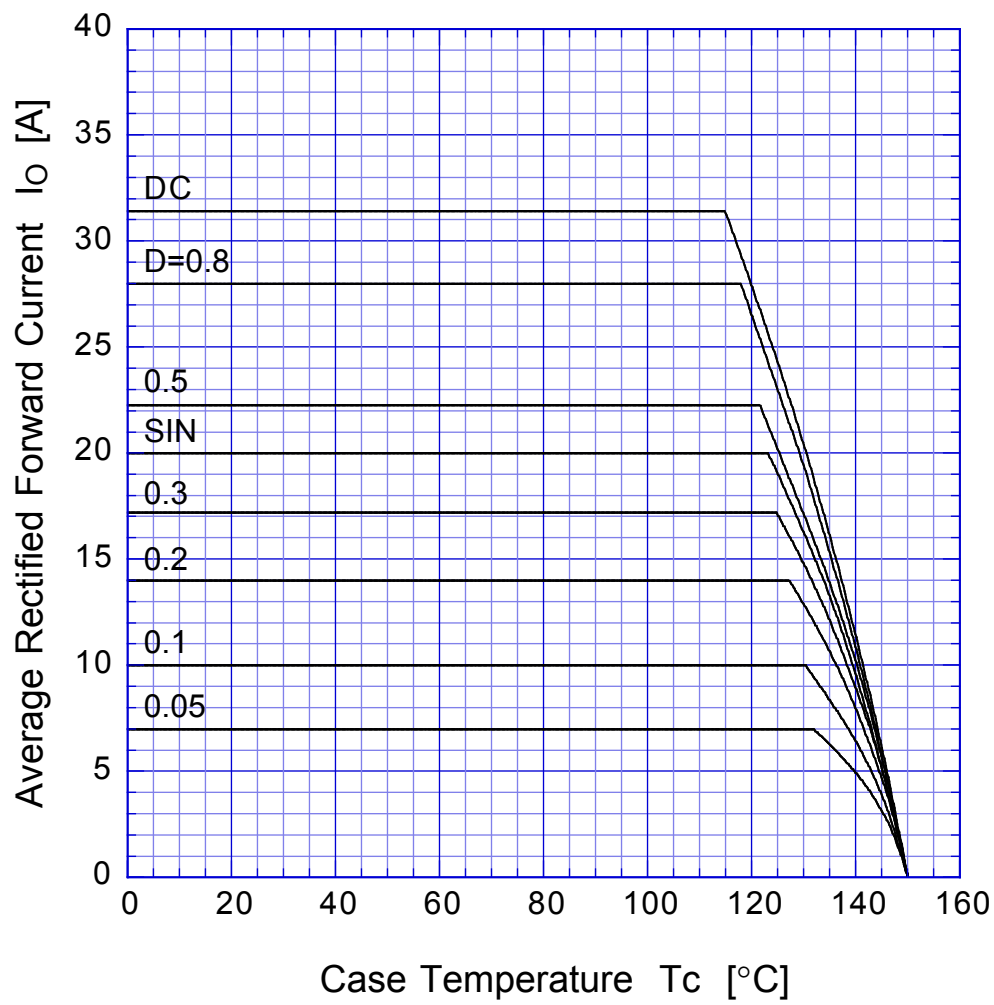


$T_j = T_{jmax}$

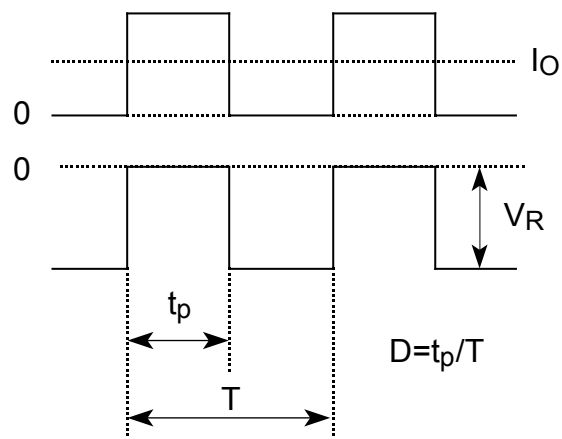


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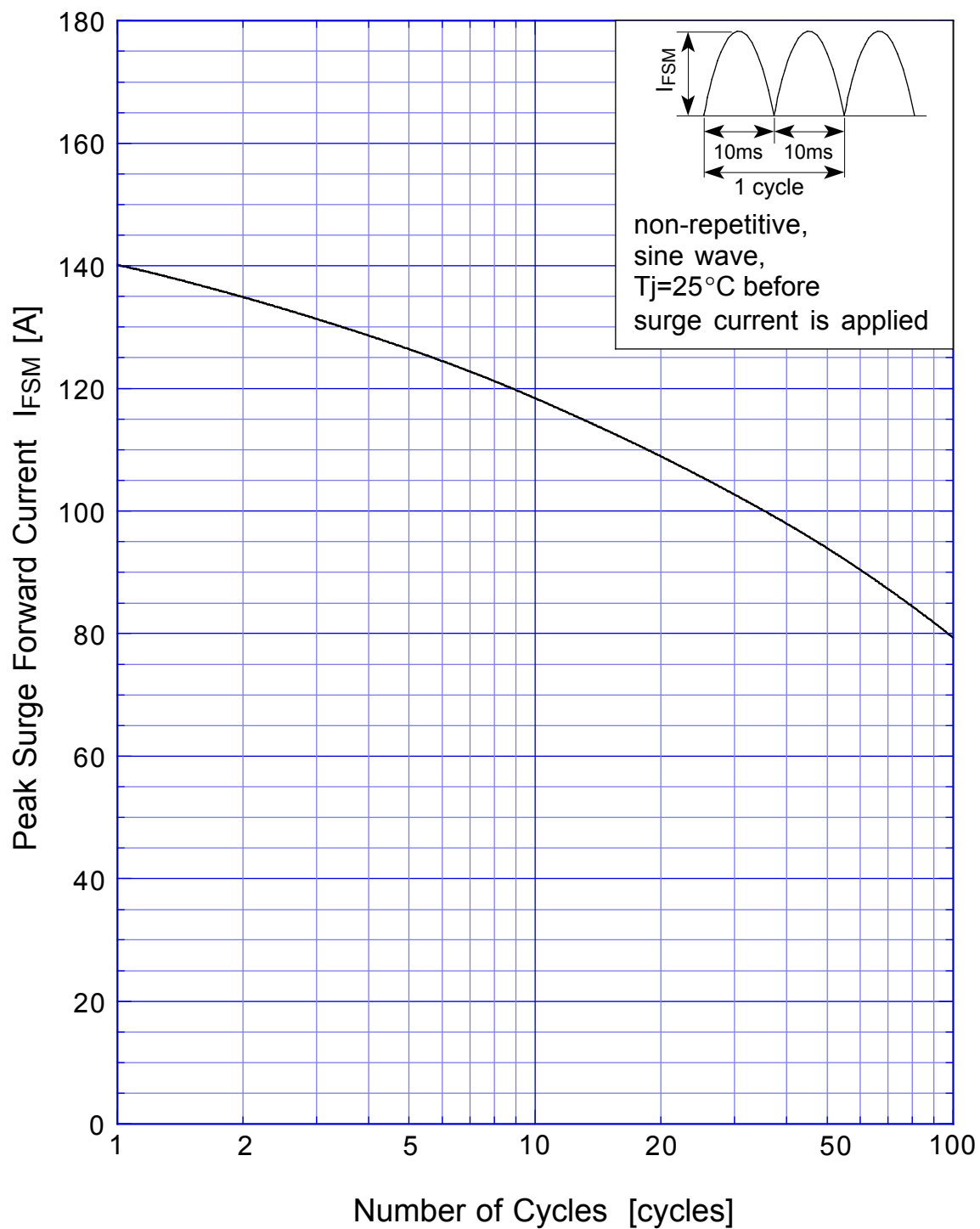
Derating Curve



$$V_R = V_{RM}$$



S20LC20U Peak Surge Forward Capability



S20LC20U Junction Capacitance

