

DF20LC30

300V 20A

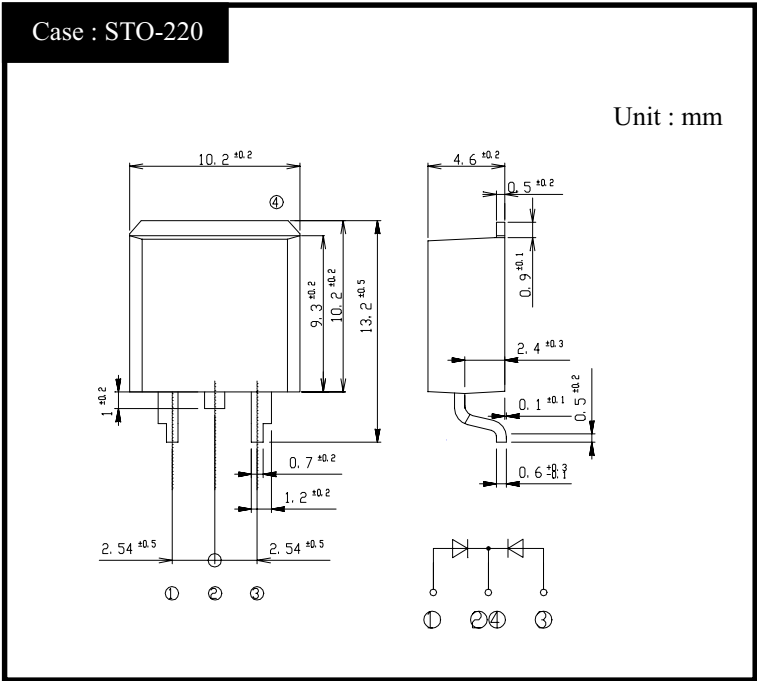
FEATURES

- SMT
- Low noise
- trr30ns

APPLICATION

- Switching power supply
- DC/DC converter
- Free Wheel
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

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

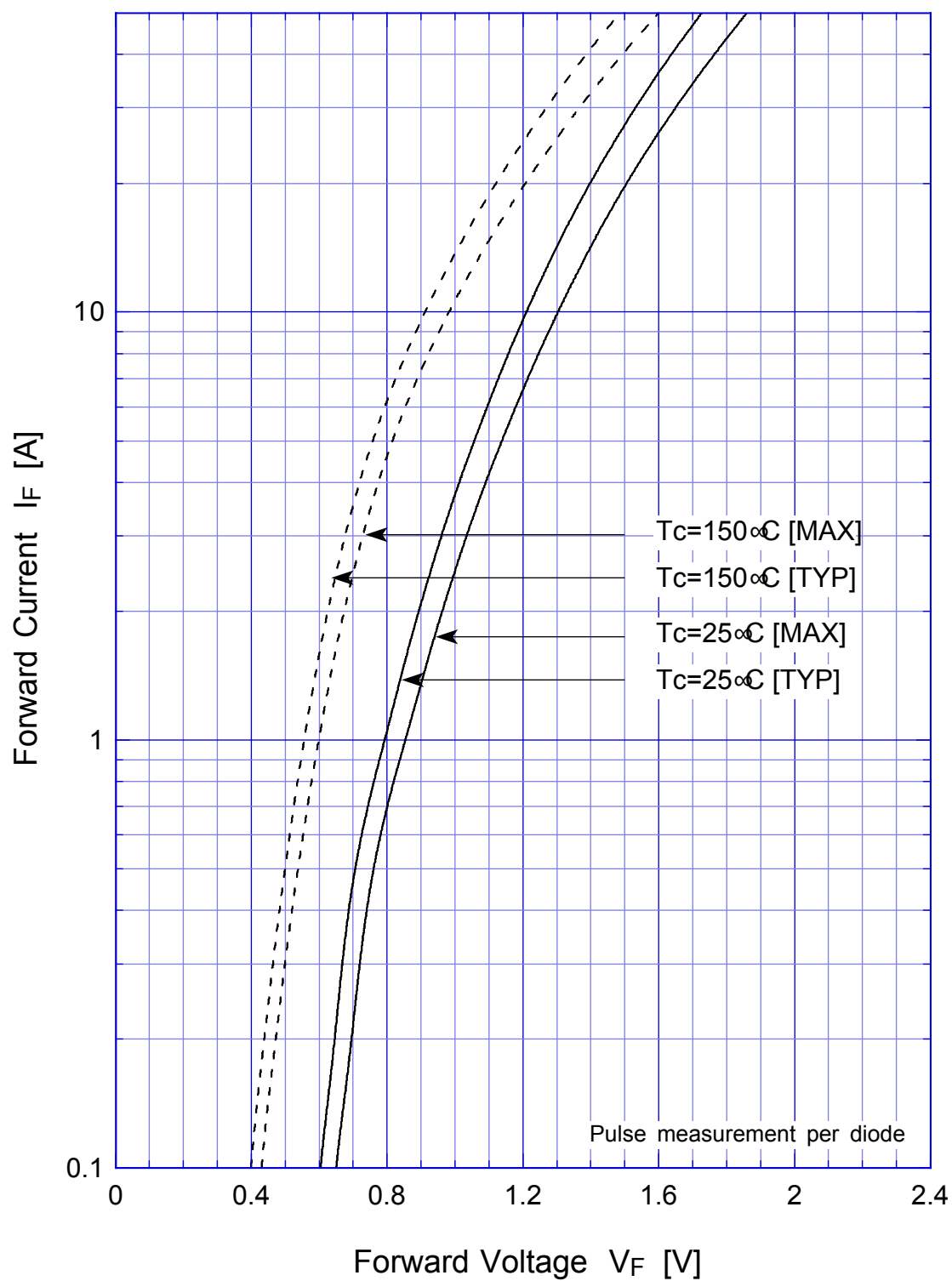
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		300	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _o /2, Tc=124°C	20	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	180	A

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

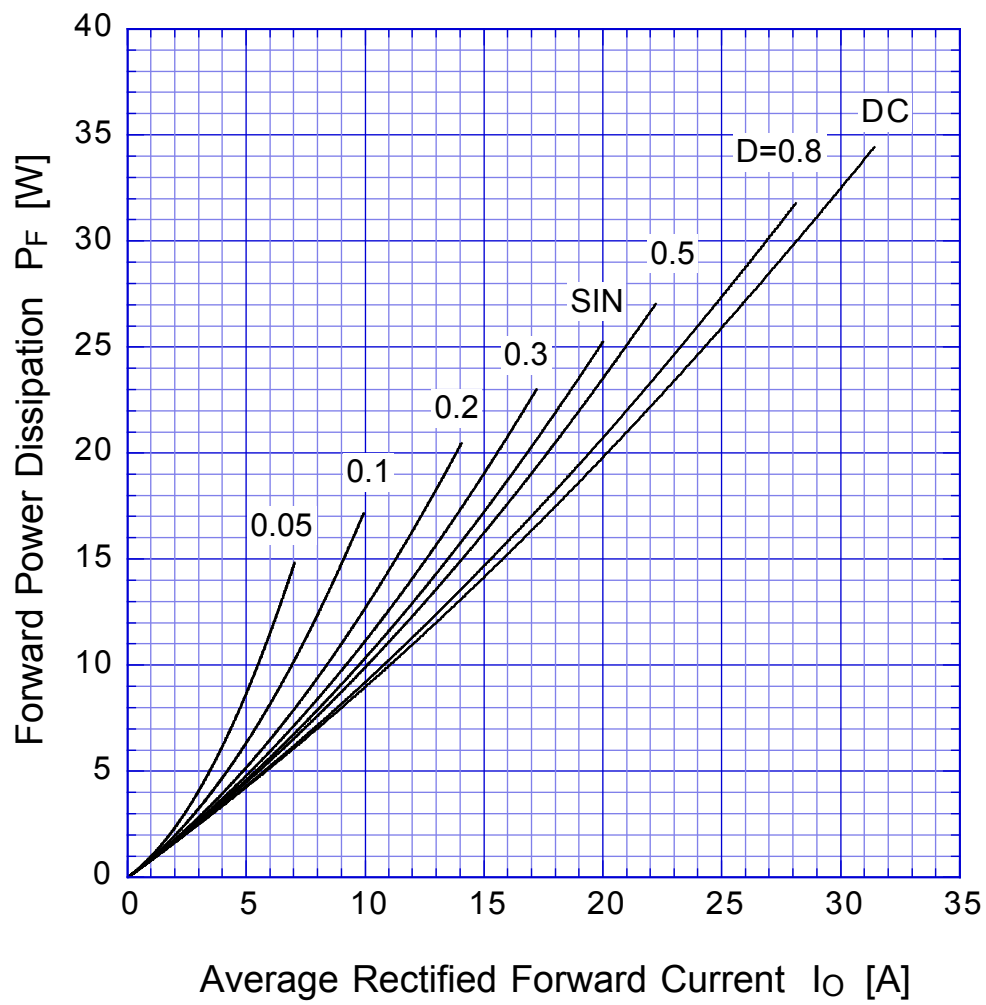
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	IF=10A, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	I _R	VR=VRM, Pulse measurement, Rating of per diode	Max.25	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A, Rating of per diode	Max.30	ns
Junction Capacitance	Cj	f=1MHz, VR=10V, Rating of per diode	TYP 90	pF
Thermal Resistance	θjc	junction to case	Max.1.0	°C/W

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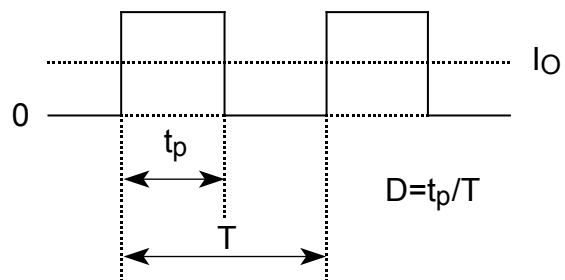
Forward Voltage



DF20LC30 Forward Power Dissipation

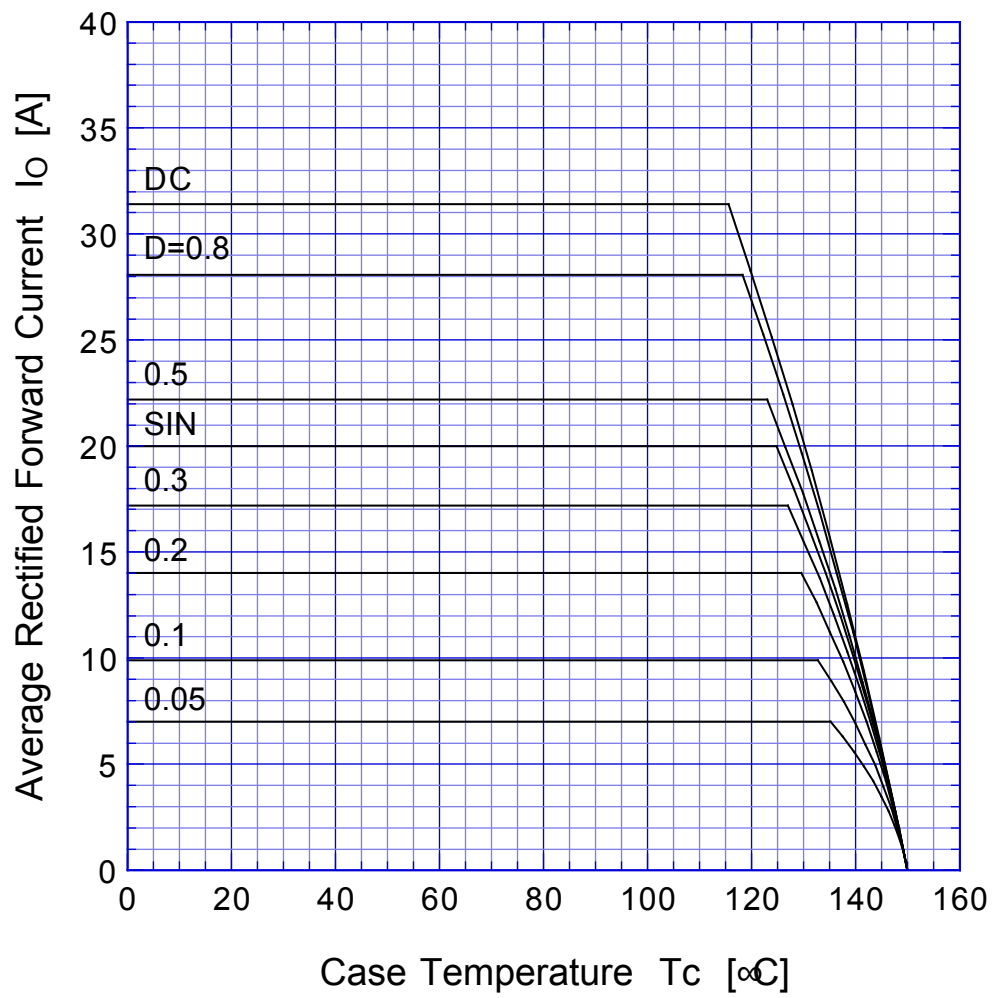


$T_j = 150^\circ\text{C}$

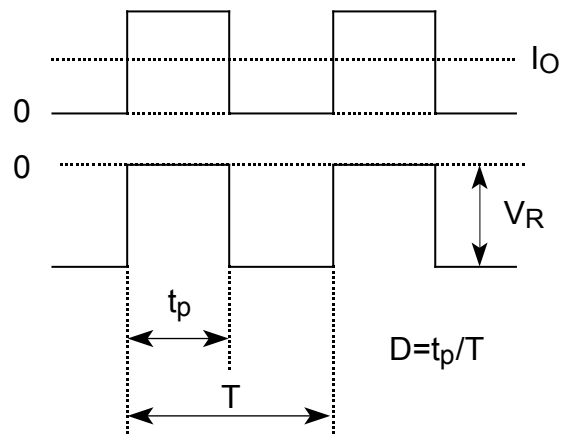


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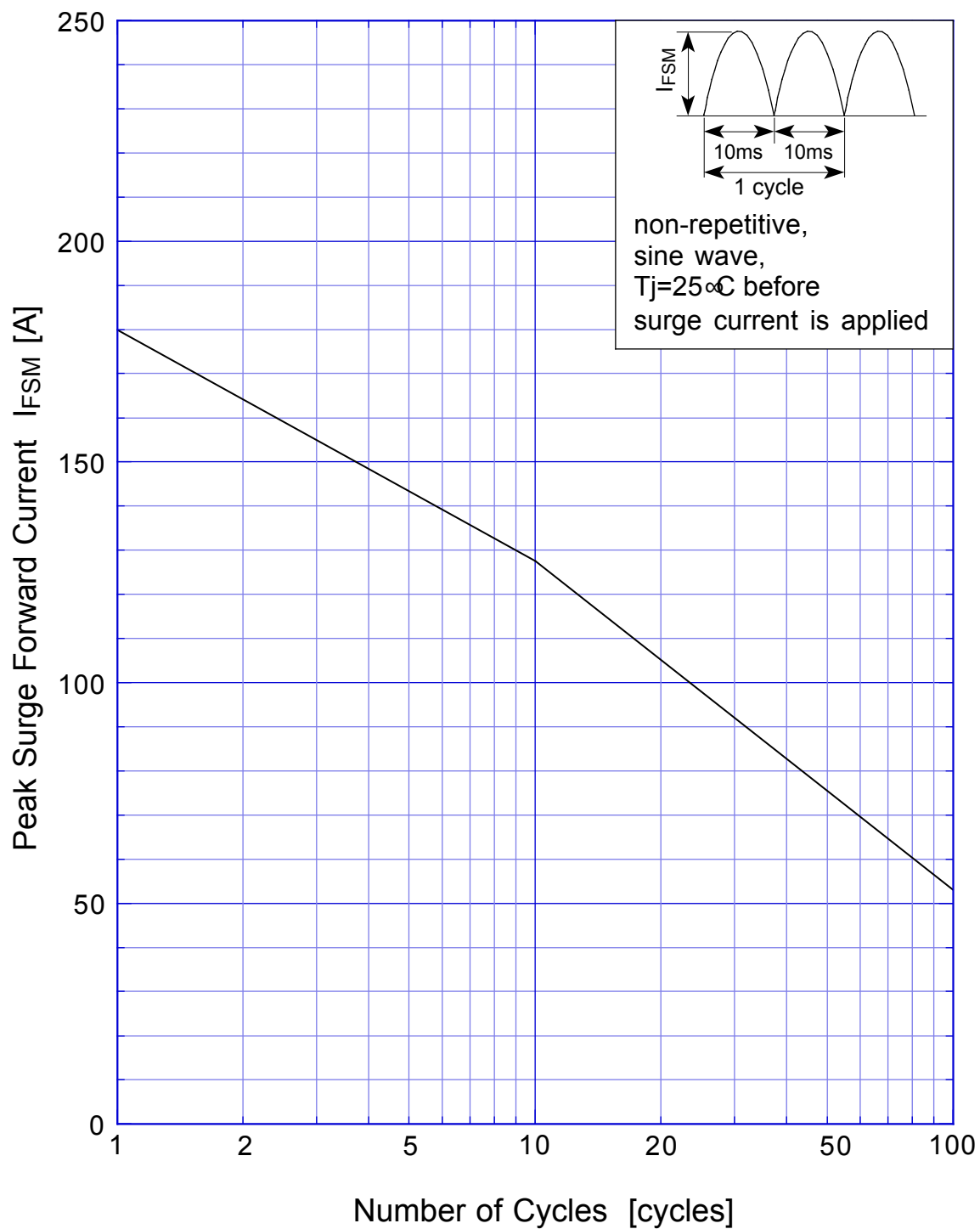
Derating Curve



$$V_R = V_{RM}$$



DF20LC30 Peak Surge Forward Capability



DF20LC30 Junction Capacitance

