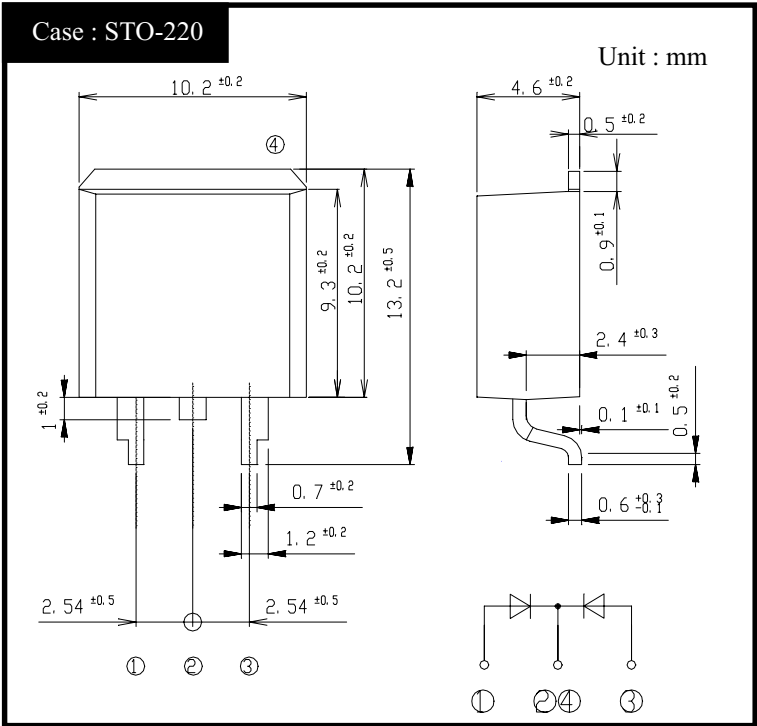


DF10LC30

300V 10A

OUTLINE DIMENSIONS



RATINGS

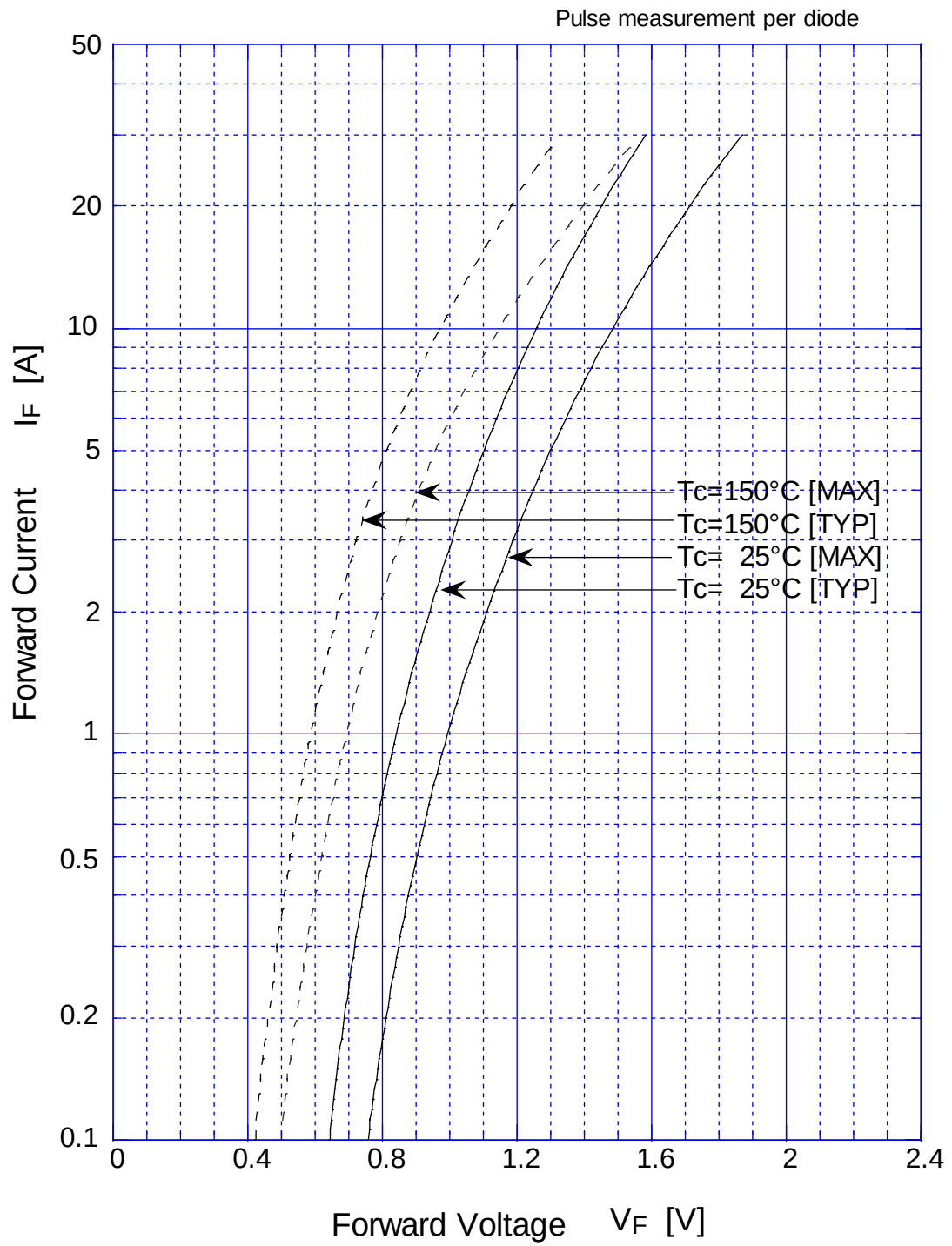
●Absolute Maximum Ratings (Unless otherwise specified, Tc=25°C)

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	10	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	80	A

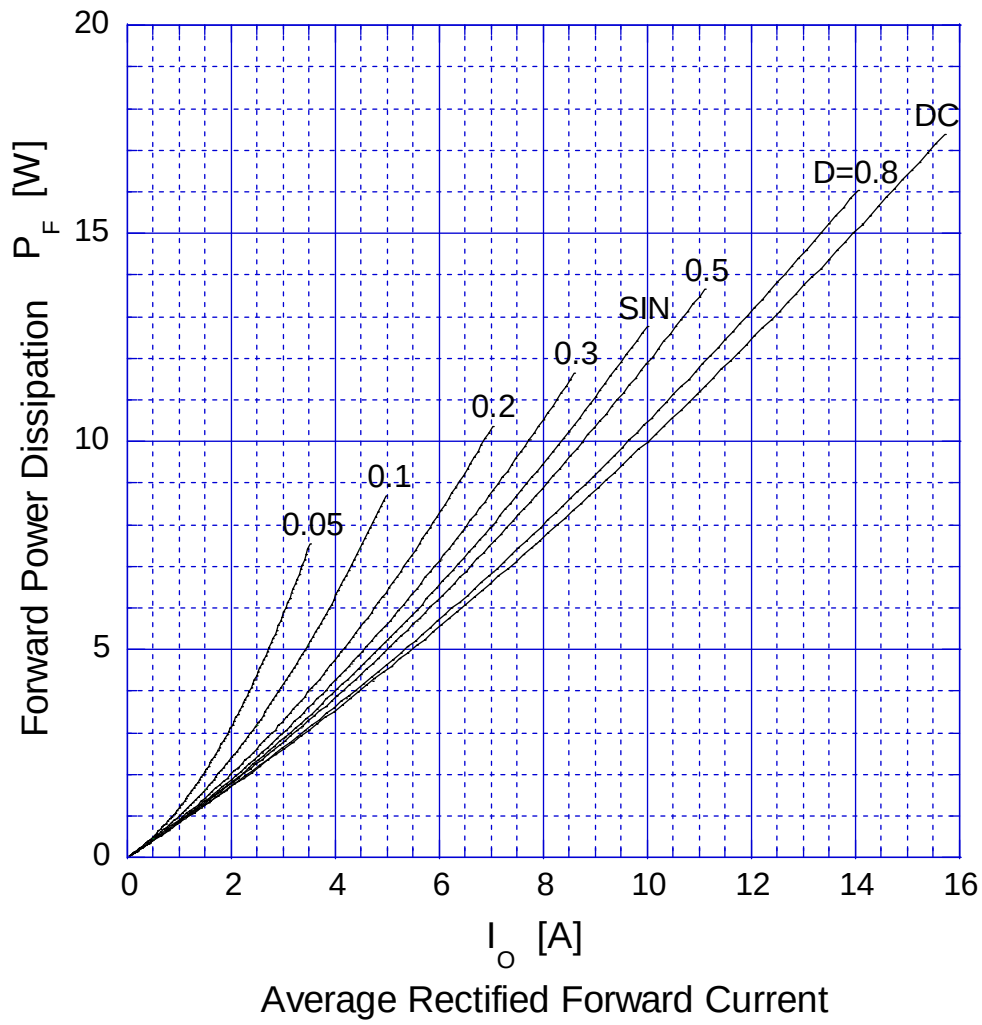
●Electrical Characteristics (Unless otherwise specified, Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	If=5A, Pulse measurement, Rating of per diode	Max 1.3	V
Reverse Current	I _R	VR=VRM, Pulse measurement, Rating of per diode	Max 25	μ A
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 50	pF
Thermal Resistance	θ jc	junction to case	Max 2.0	°C/W

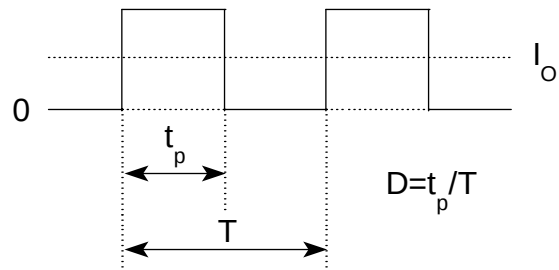
DF10LC30 Forward Voltage



DF10LC30 Forward Power Dissipation

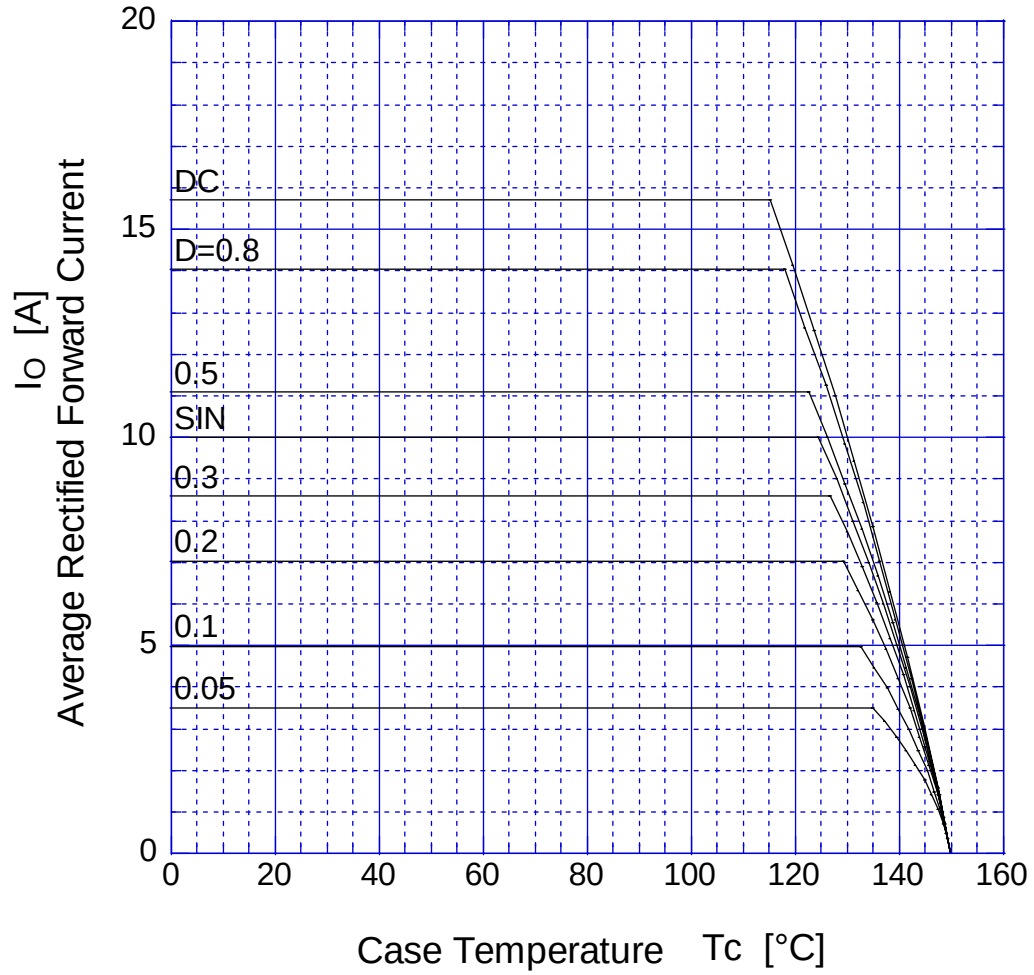


$T_j = 150^\circ\text{C}$

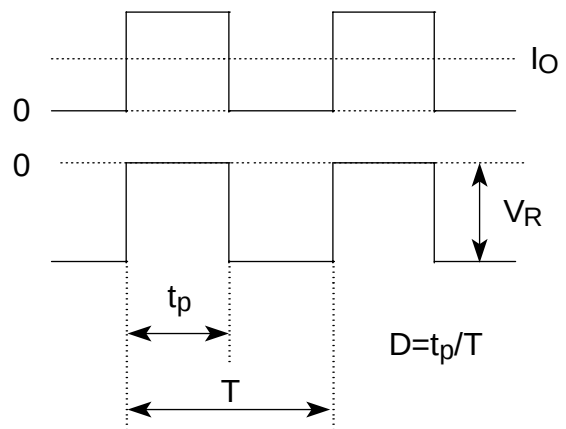


DF10LC30

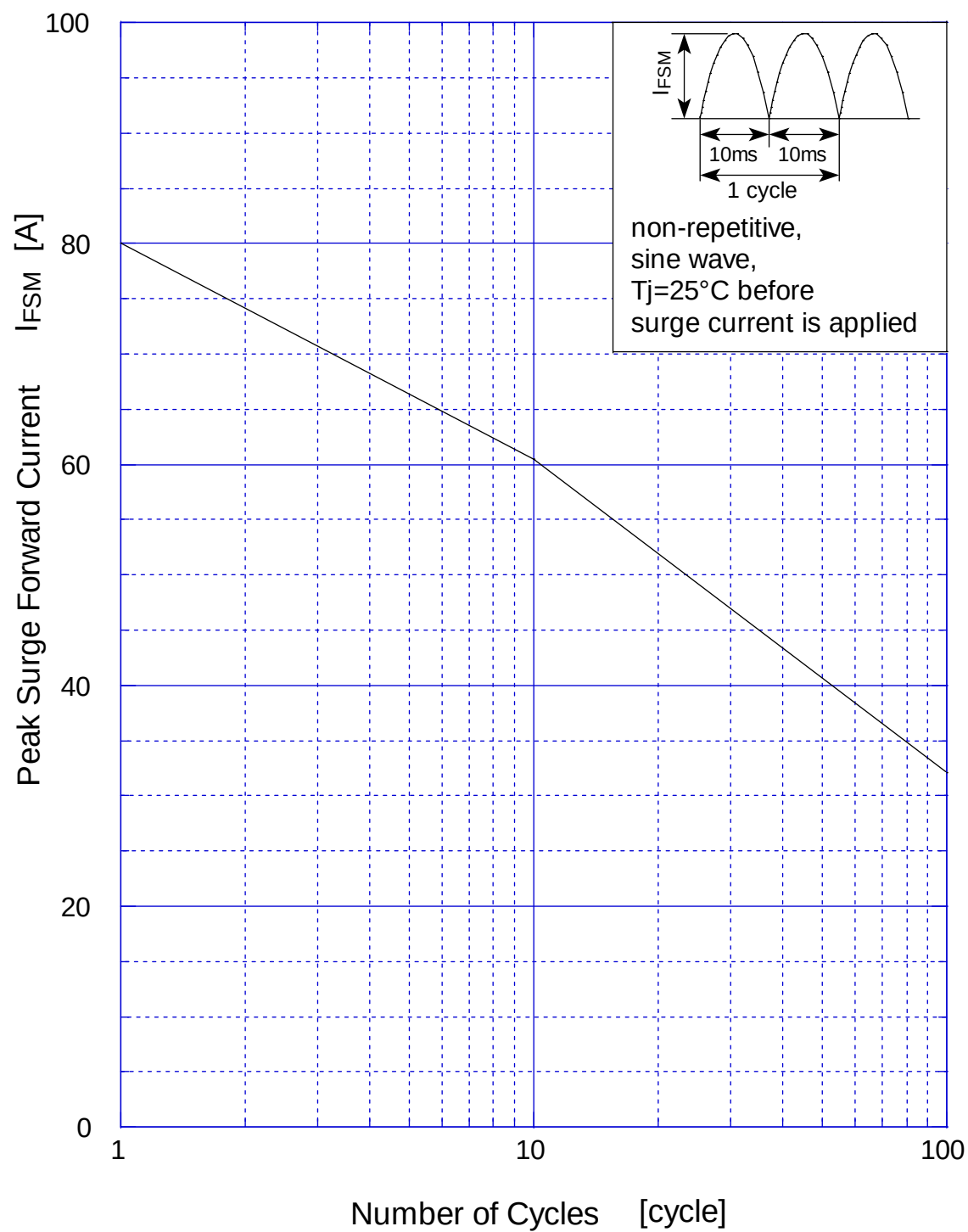
Derating Curve



$$V_R = V_{RM}$$



DF10LC30 Peak Surge Forward Capability



DF10LC30 Junction Capacitance

