

D120LC40B

400V 120A

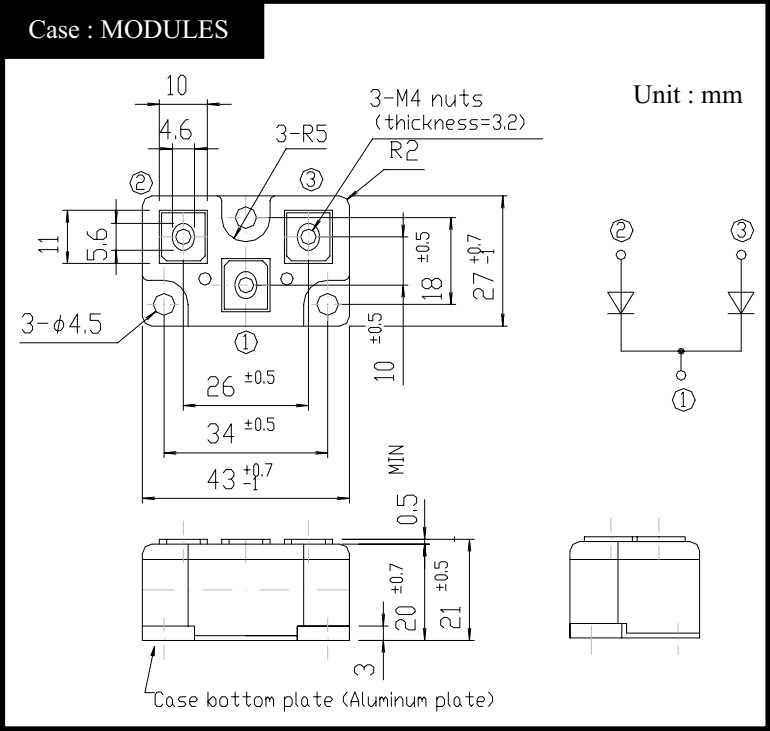
FEATURES

- High current capacity
- trr100ns
- Insulated Package

APPLICATION

- Semiconductor Production Equipment
- Big Power Supply
- Factory Automation, Robot

OUTLINE DIMENSIONS



RATINGS

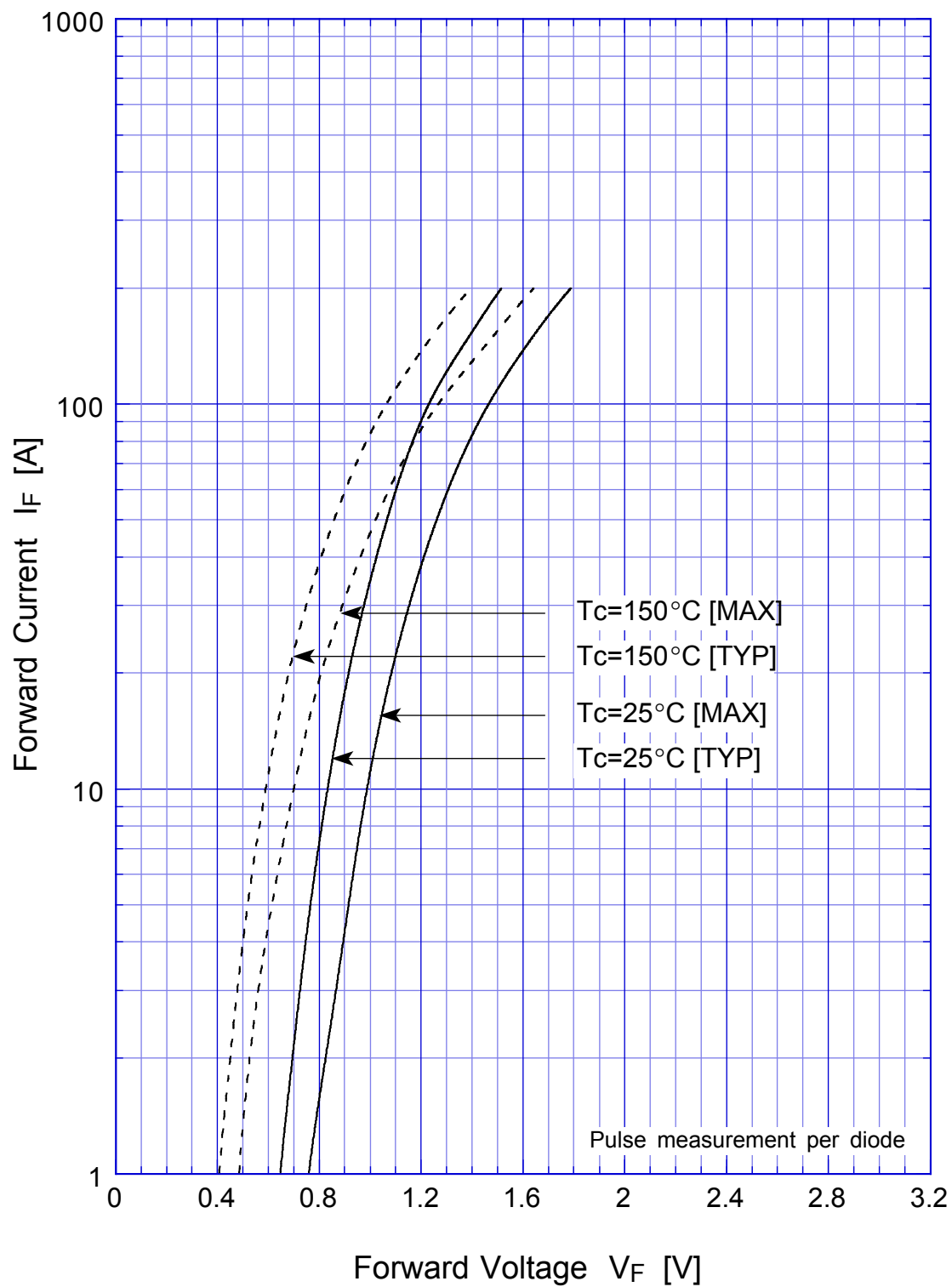
● Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each arm I _O /2, Tc=60°C	120	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm Tj=25°C	650	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR		1.7	N·m

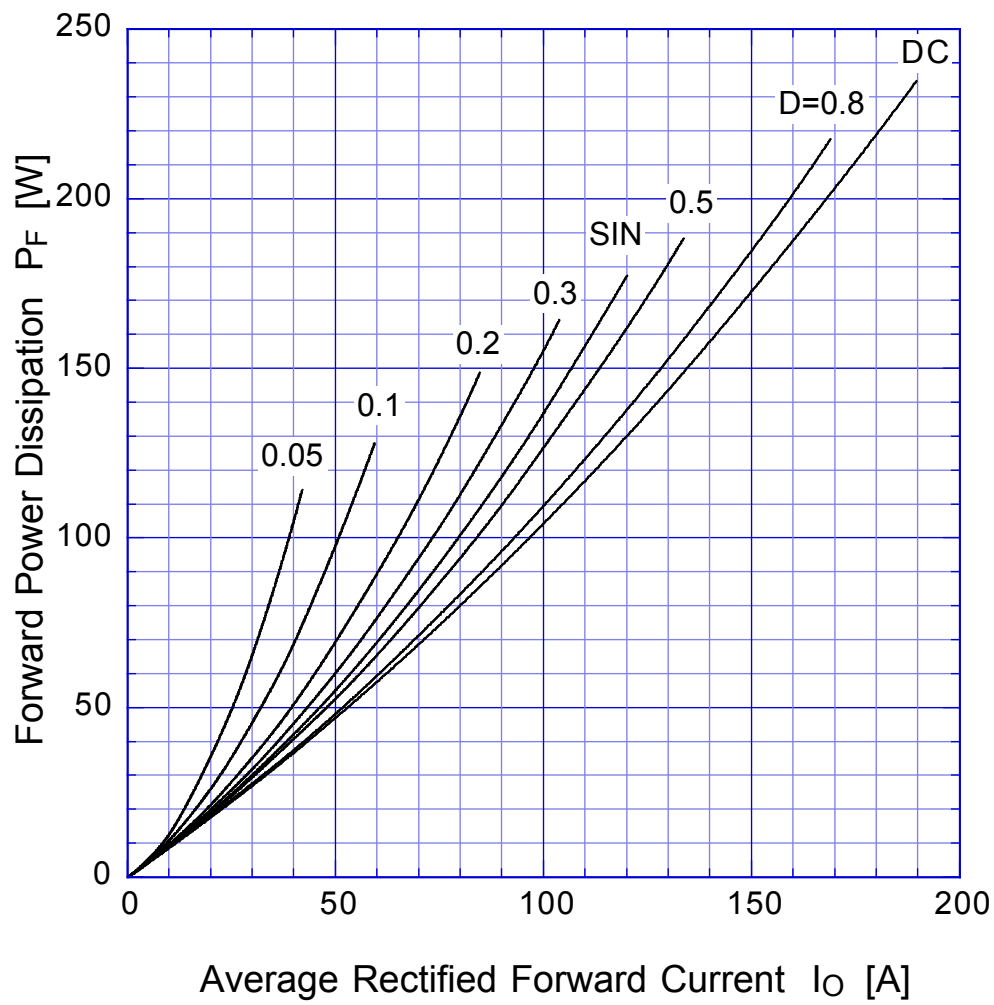
● Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =60A, Pulse measurement, Rating of per arm	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per arm	Max.25	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A, Rating of per arm	Max.100	ns
Thermal Resistance	θ _{jc}	junction to case	Max.0.5	°C/W

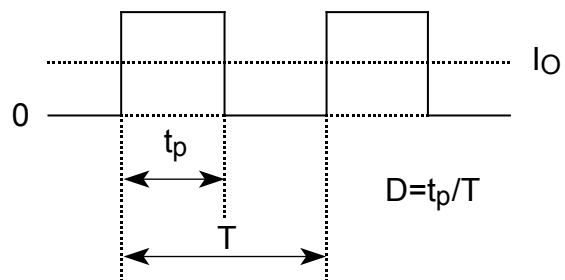
D120LC40B Forward Voltage



D120LC40B Forward Power Dissipation

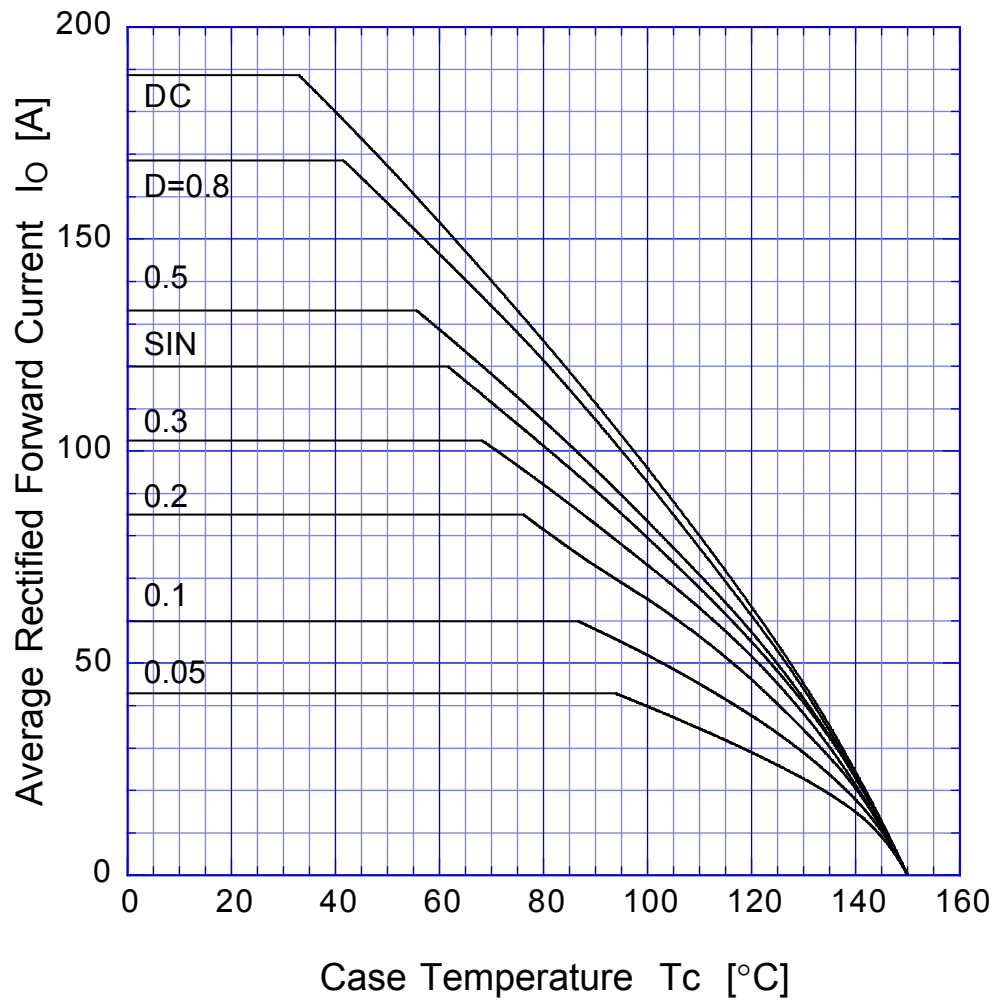


$T_j = T_{jmax}$

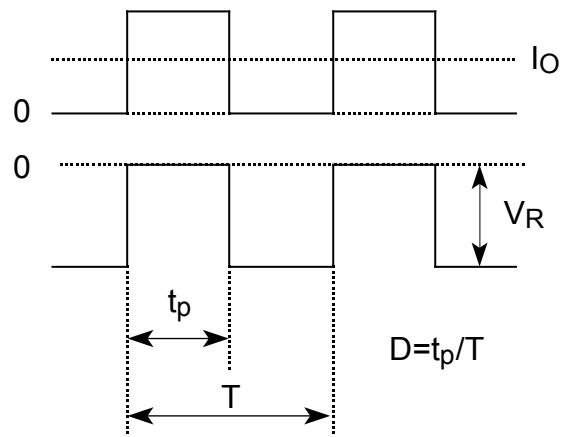


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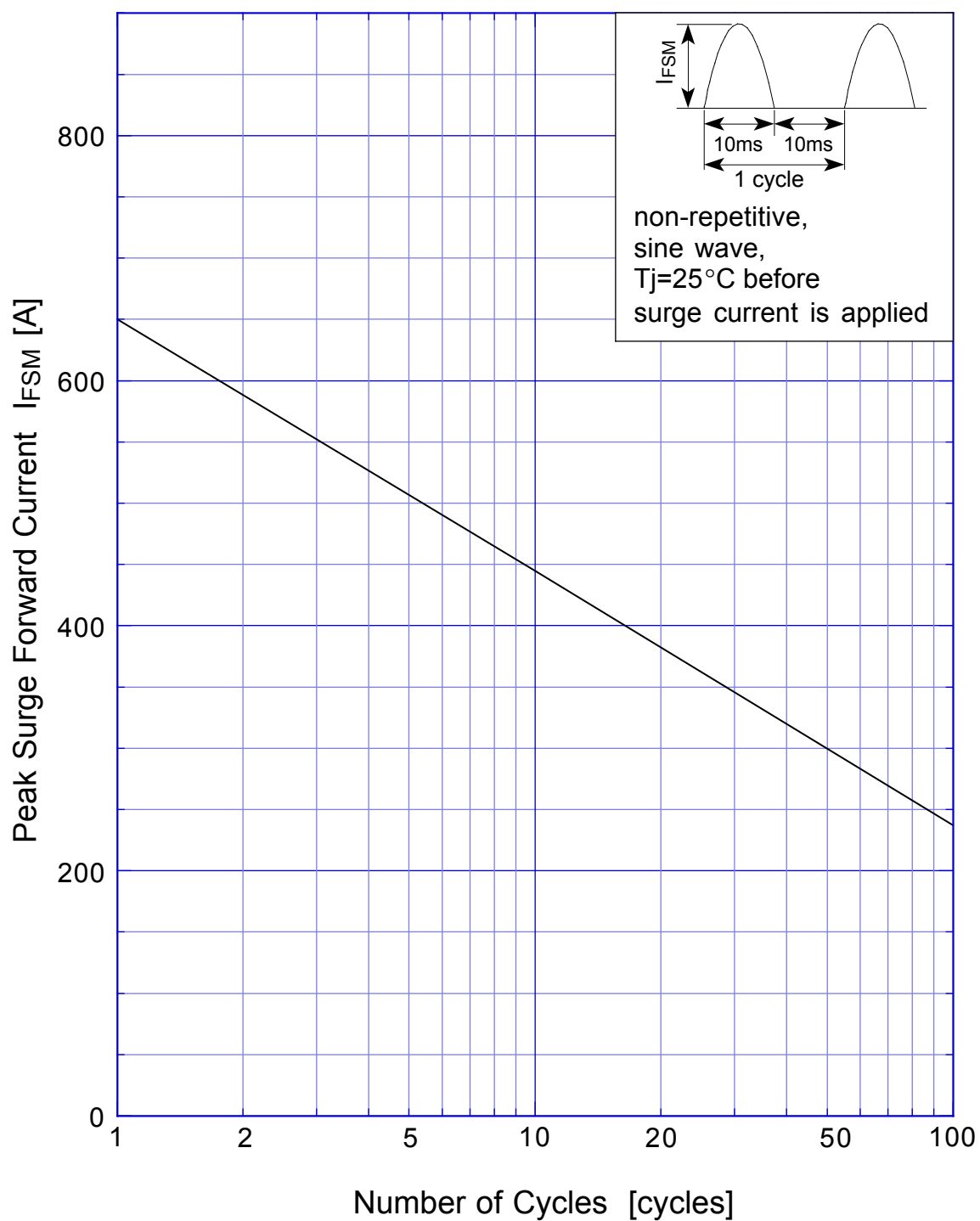
Derating Curve



$$V_R = V_{RM}$$



D120LC40B Peak Surge Forward Capability



D120LC40B Junction Capacitance

