

D240LC40

400V 240A

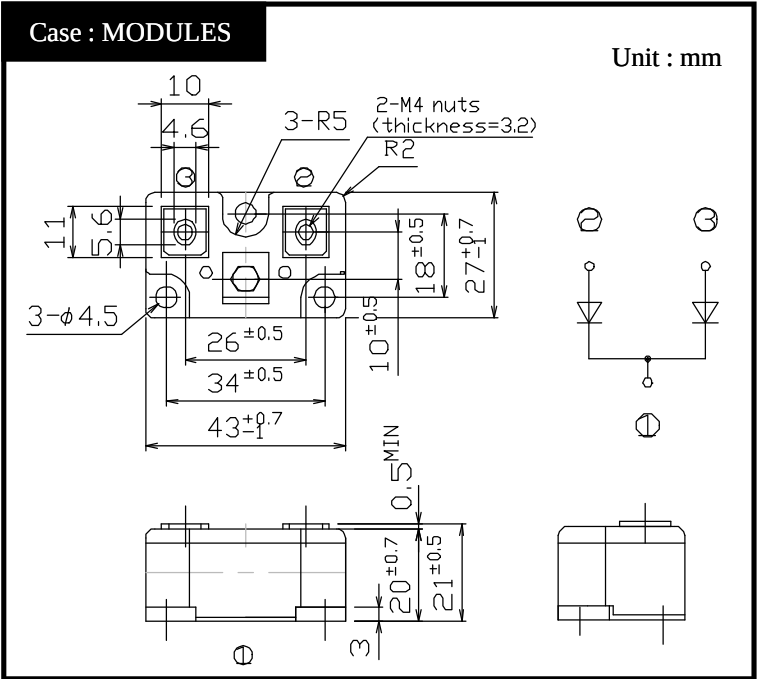
FEATURES

- High current capacity
- trr150ns
- Small θ_{jc}

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

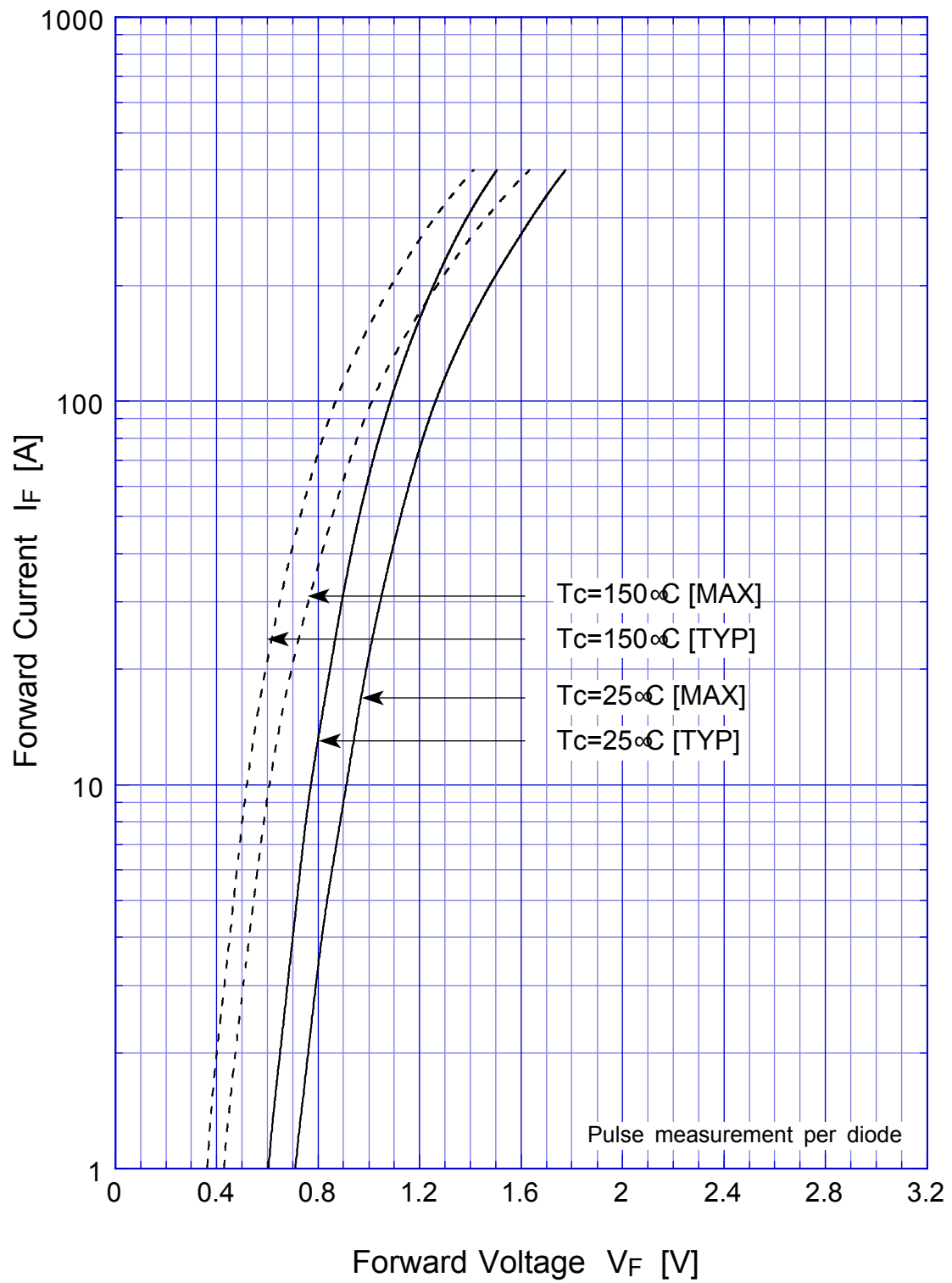
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each arm I _O /2, Tc=77°C	240	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Rating of per arm Tj=25°C	1400	A
Mounting Torque	TOR		1.7	N·m

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

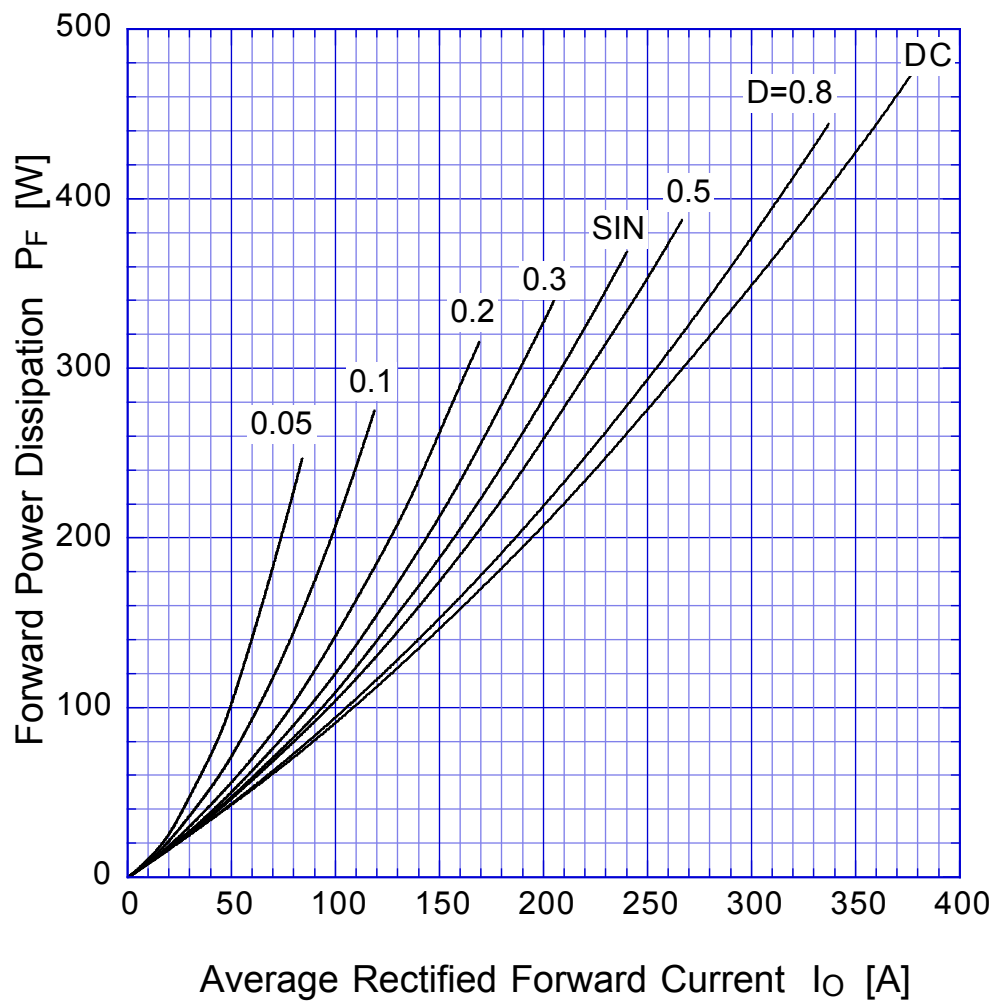
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =120A, Pulse measurement, Rating of per arm	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per arm	Max.50	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A, Rating of per arm	Max.150	ns
Thermal Resistance	θ _{jc}	junction to case	Max.0.2	°C/W

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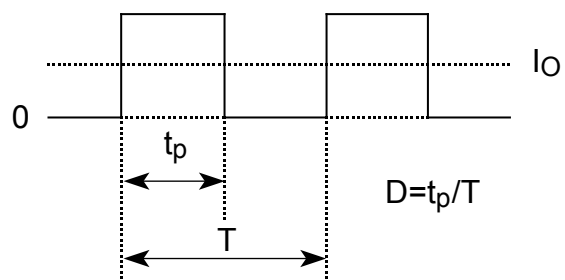
Forward Voltage



D240LC40 Forward Power Dissipation

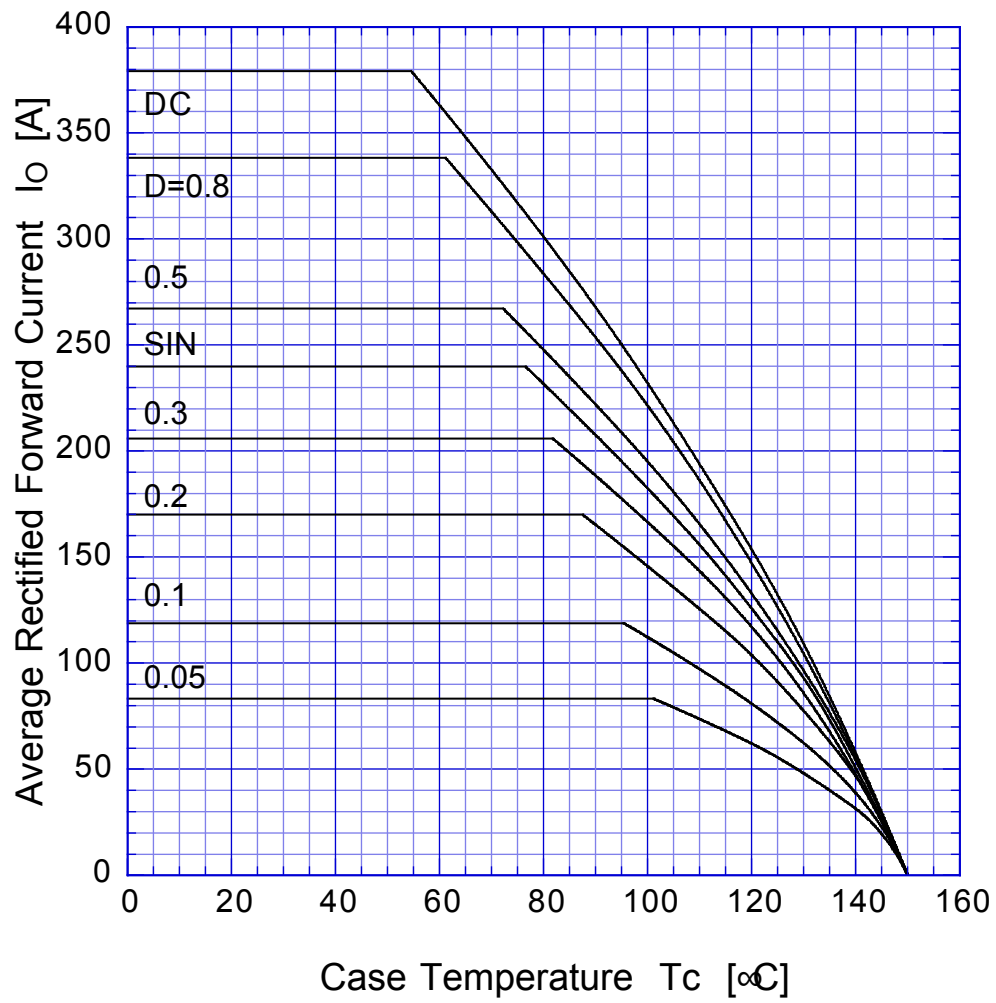


$T_j = T_{jmax}$

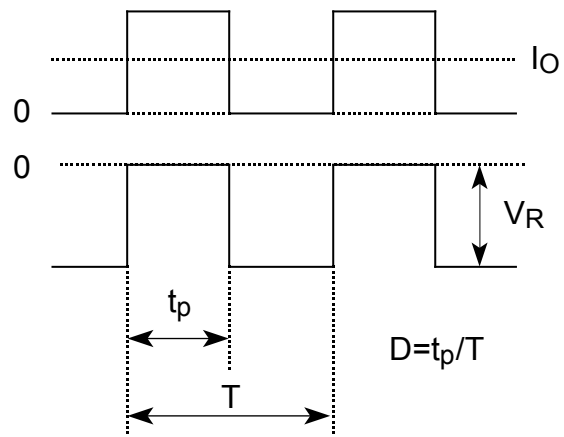


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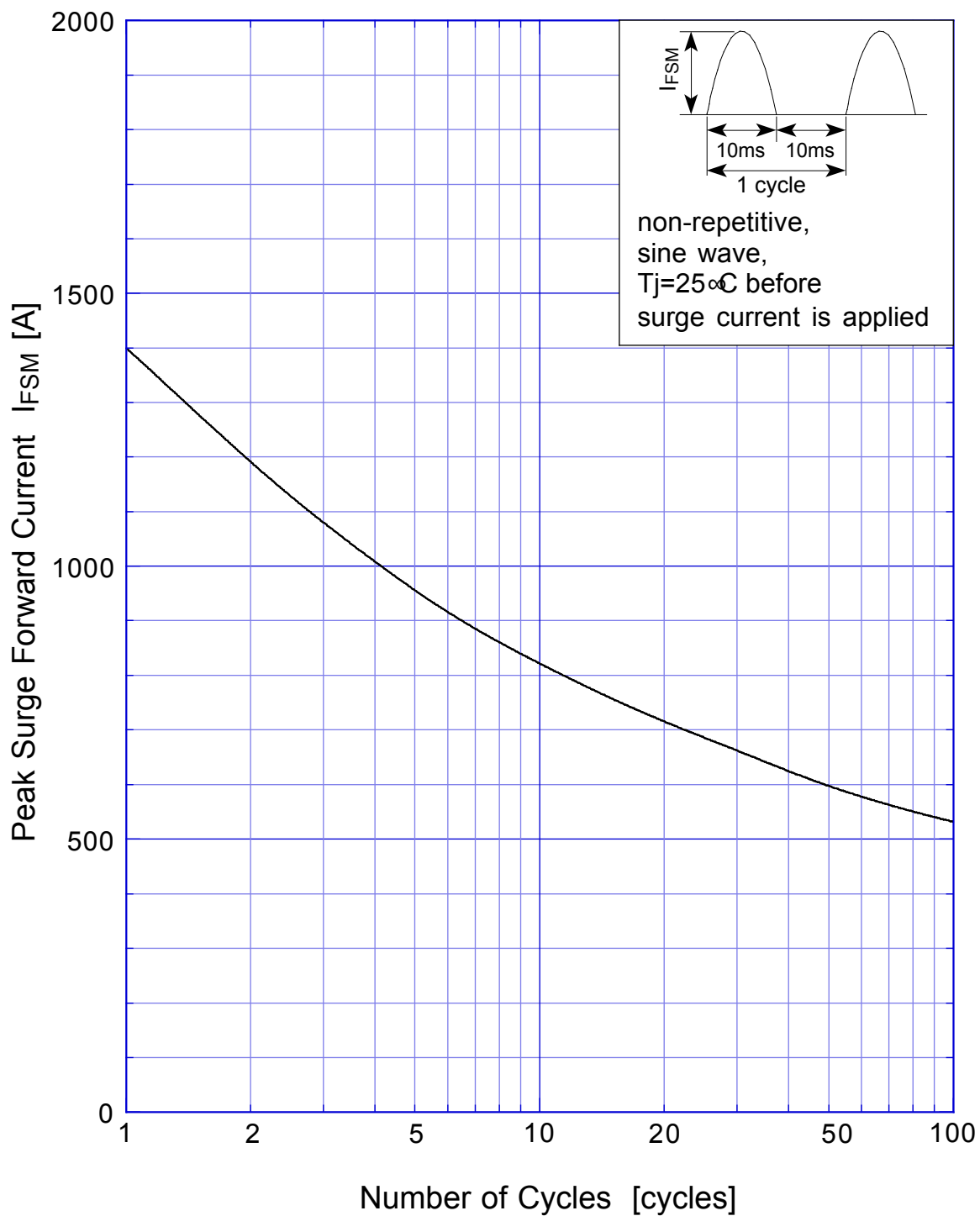
Derating Curve



$$V_R = V_{RM}$$



D240LC40 Peak Surge Forward Capability



D240LC40 Junction Capacitance

