

DE3L40

400V 3A

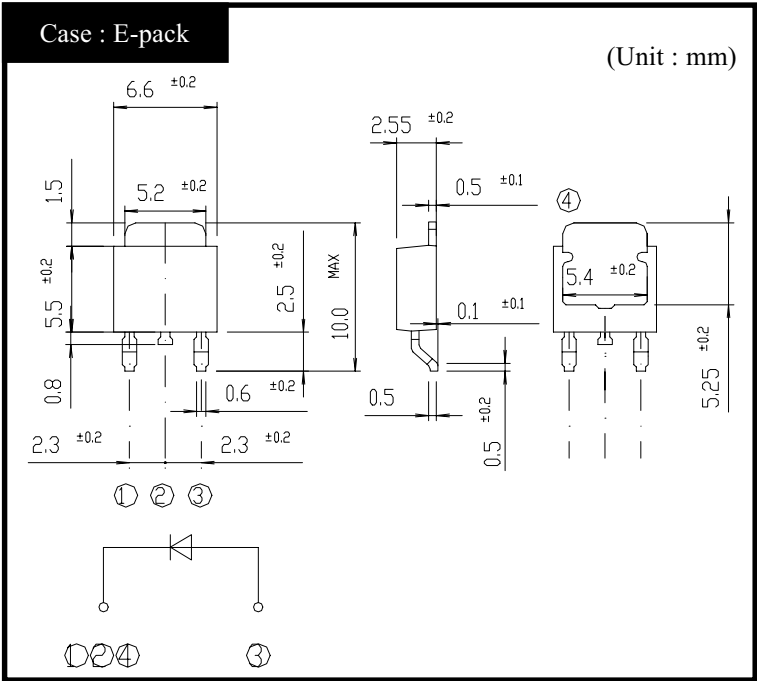
FEATURES

- SMT
- Low noise
- trr50ns

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)

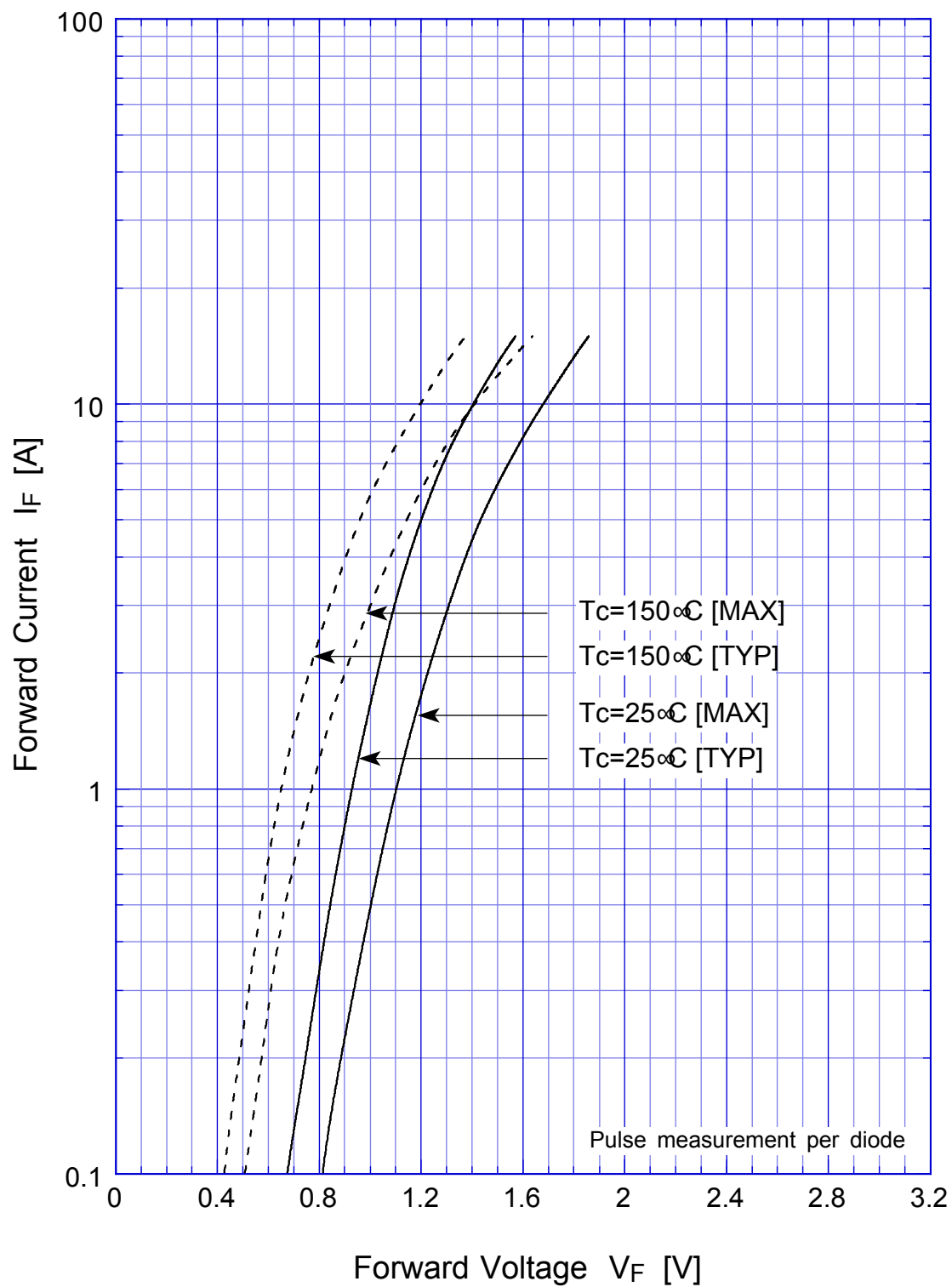
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	VRM		400	V
Average Rectified Forward Current	IO	50Hz sine wave, R-load, Tc=99°C	3	A
Peak Surge Forward Current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	50	A

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	VF	IF=3A, Pulse measurement	Max.1.3	V
Reverse Current	IR	VR=VRM, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	IF=0.5A, IR=1A	Max.50	ns
Thermal Resistance	θjc	junction to case	Max.12	°C/W

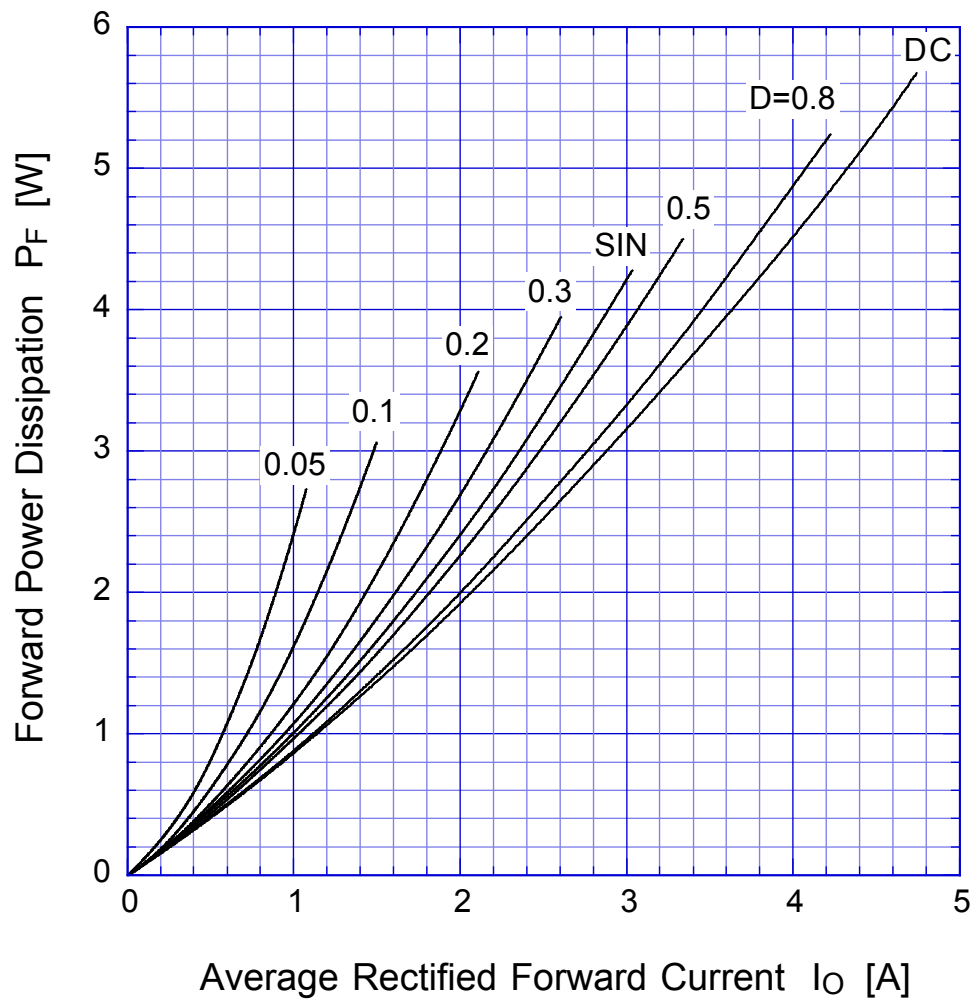
DE3L40

Forward Voltage

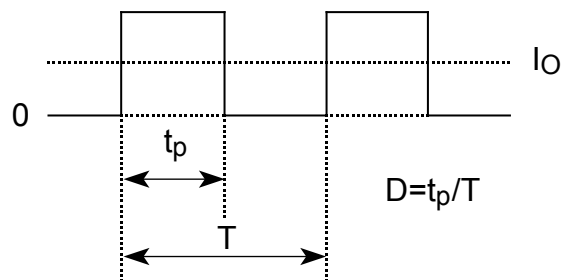


DE3L40

Forward Power Dissipation

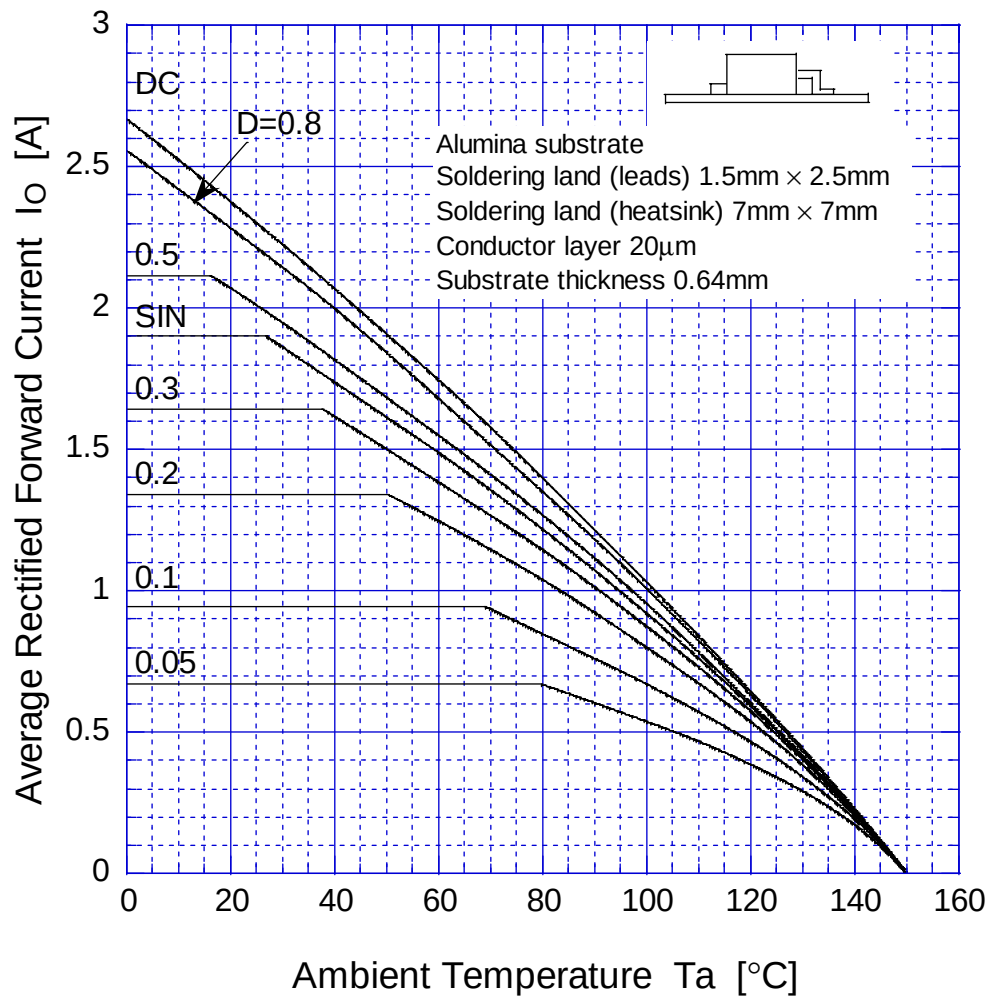


$T_j = T_{jmax}$

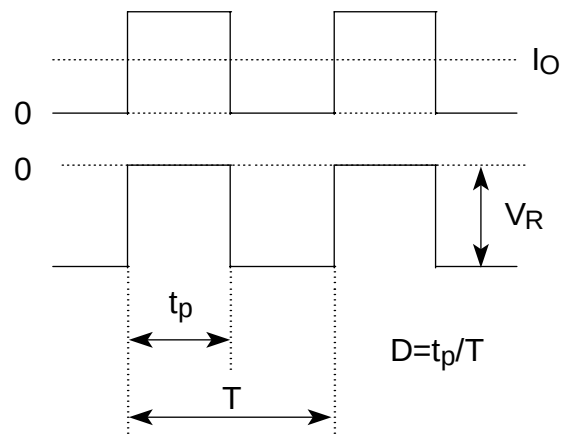


DE3L40

Derating Curve

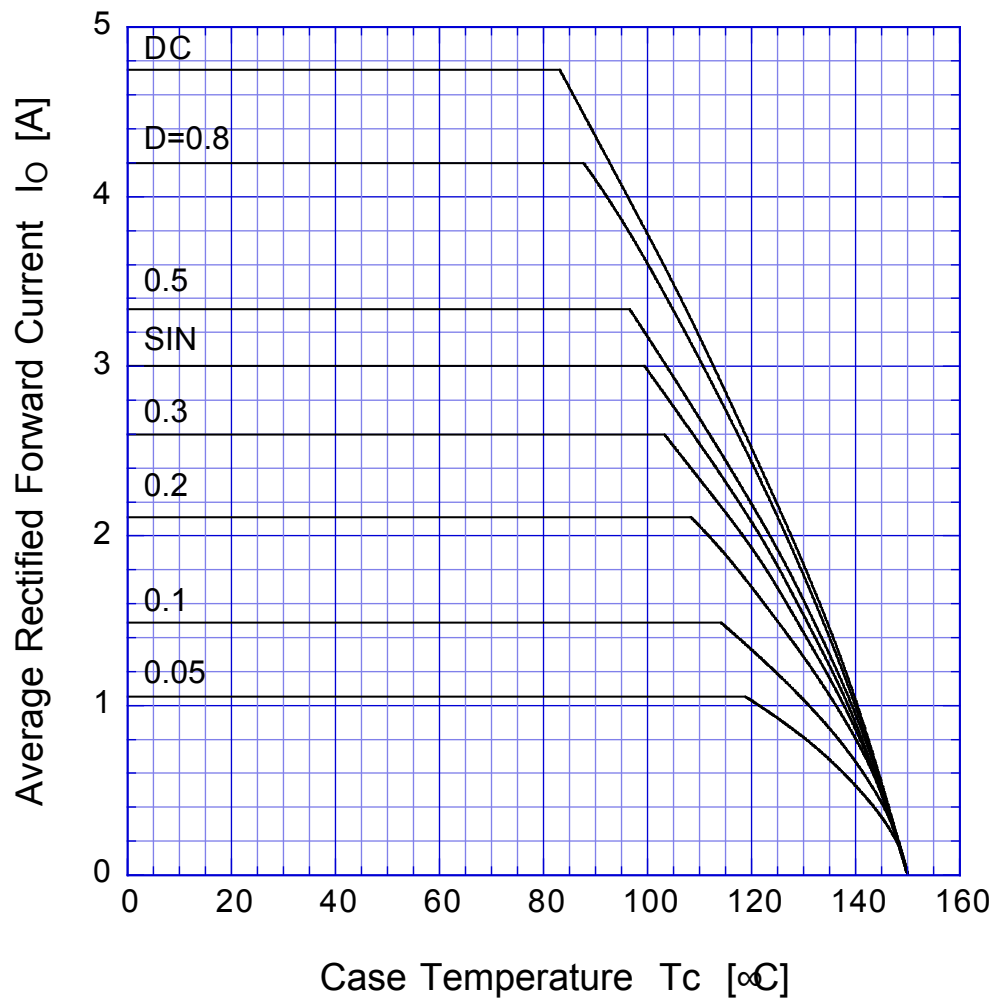


$$V_R = V_{RM}$$

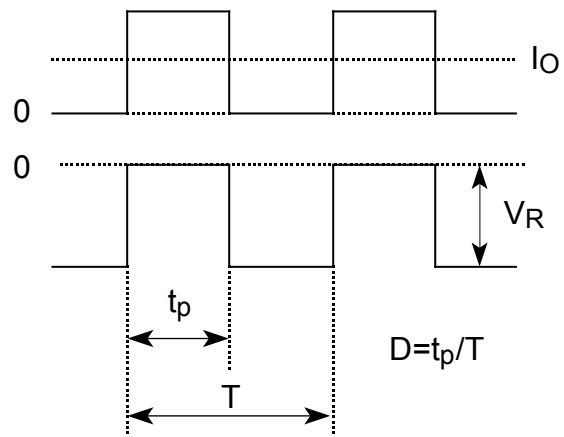


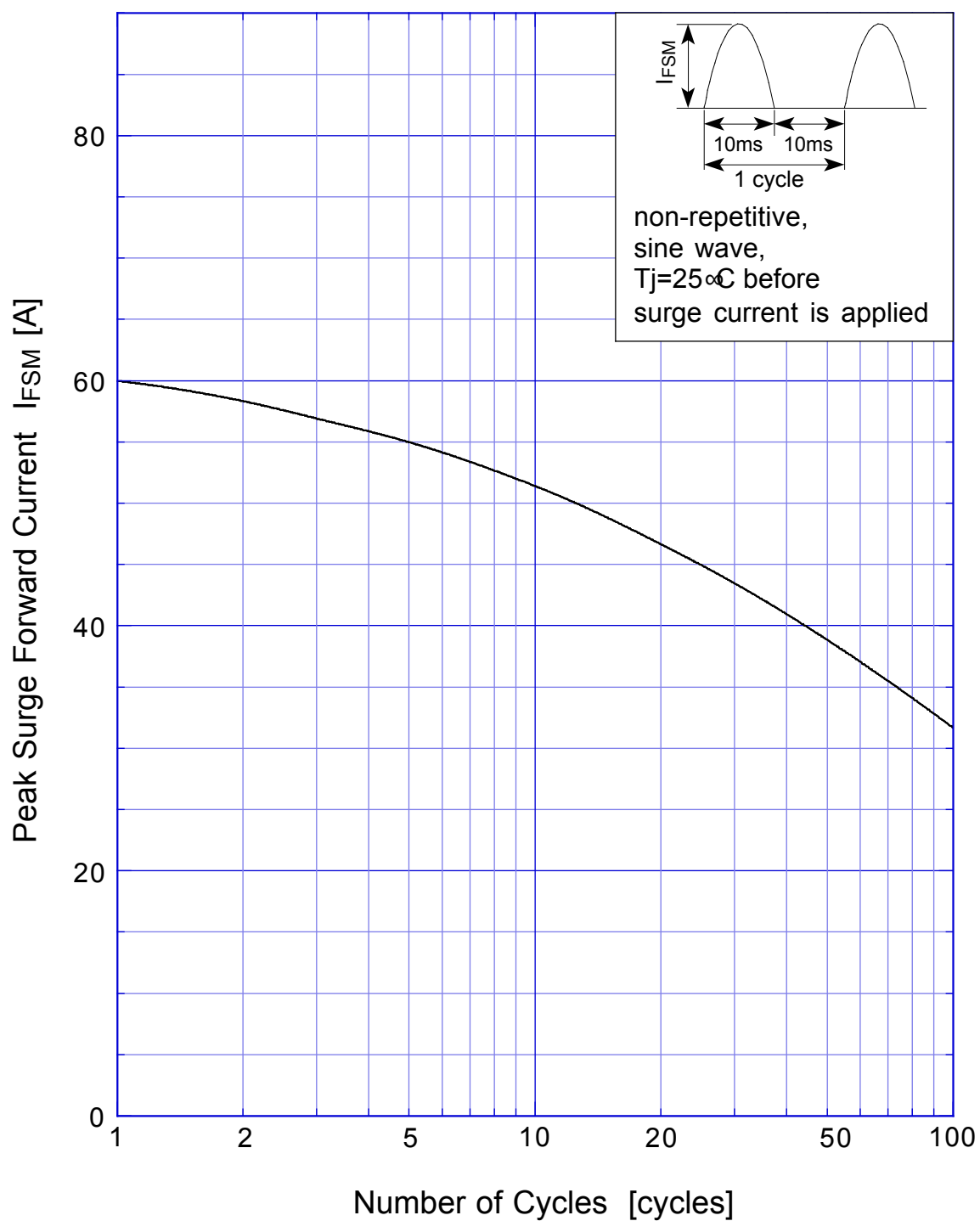
DE3L40

Derating Curve



$$V_R = V_{RM}$$





DE3L40 Junction Capacitance

