

SHINDENGEN

Super Fast Recovery Rectifiers

Single

D4L40

400V 4A

FEATURES

- Low noise
- trr50ns
- Fully Isolated Molding

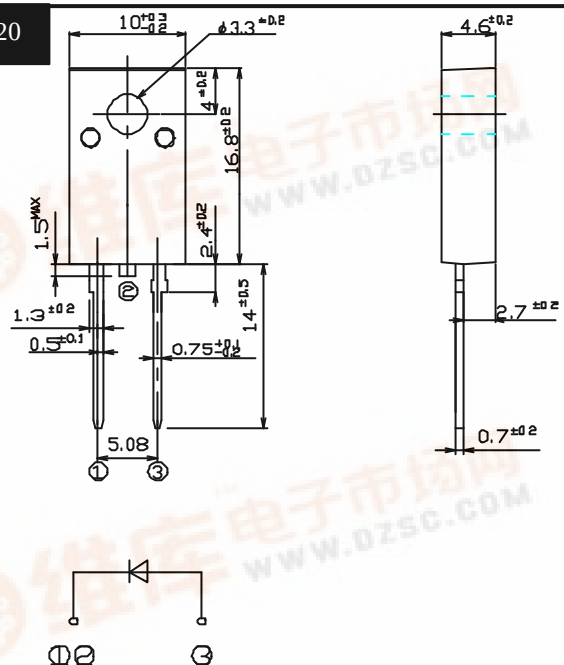
APPLICATION

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

OUTLINE DIMENSIONS

Case : ITO-220

(Unit : mm)



RATINGS

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

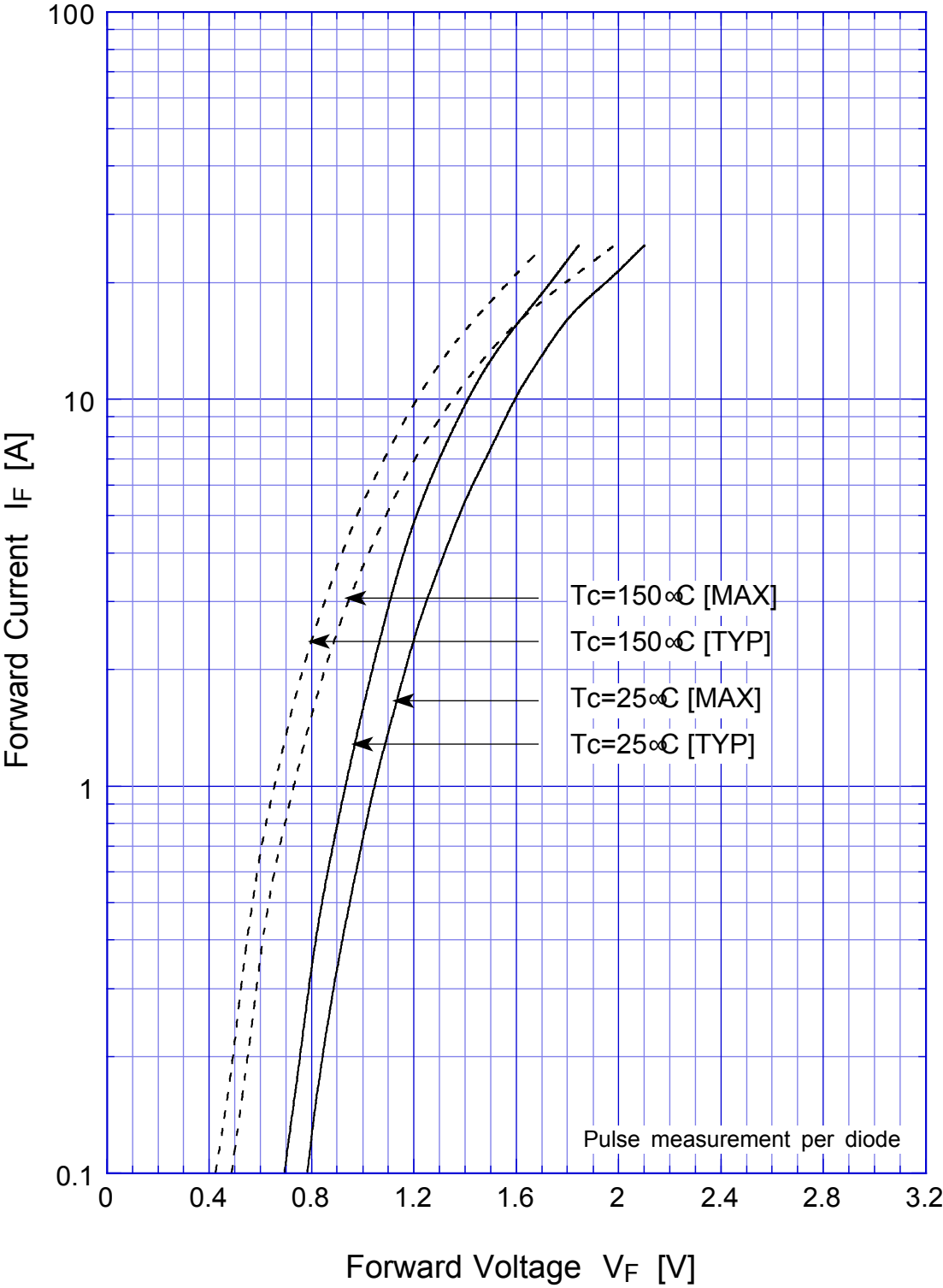
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40~150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Tc=125°C	4	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque 0.3N·m)	0.5	N·m

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

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =4A, Pulse measurement	Max.1.3	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I _F =0.5A, I _R =1A	Max.50	ns
Thermal Resistance	θ _{jc}	junction to case	Max.4.5	°C/W

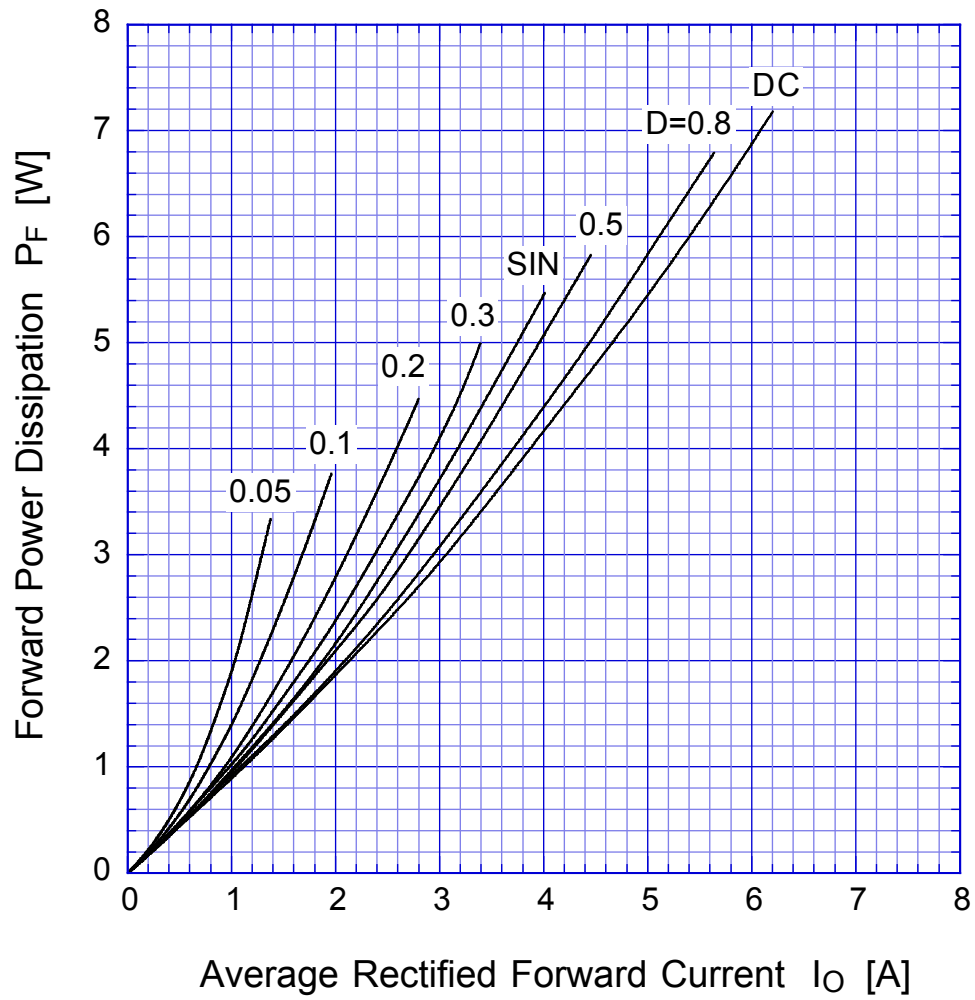
D4L40

Forward Voltage

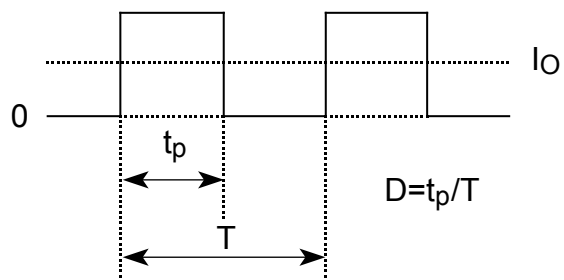


D4L40

Forward Power Dissipation

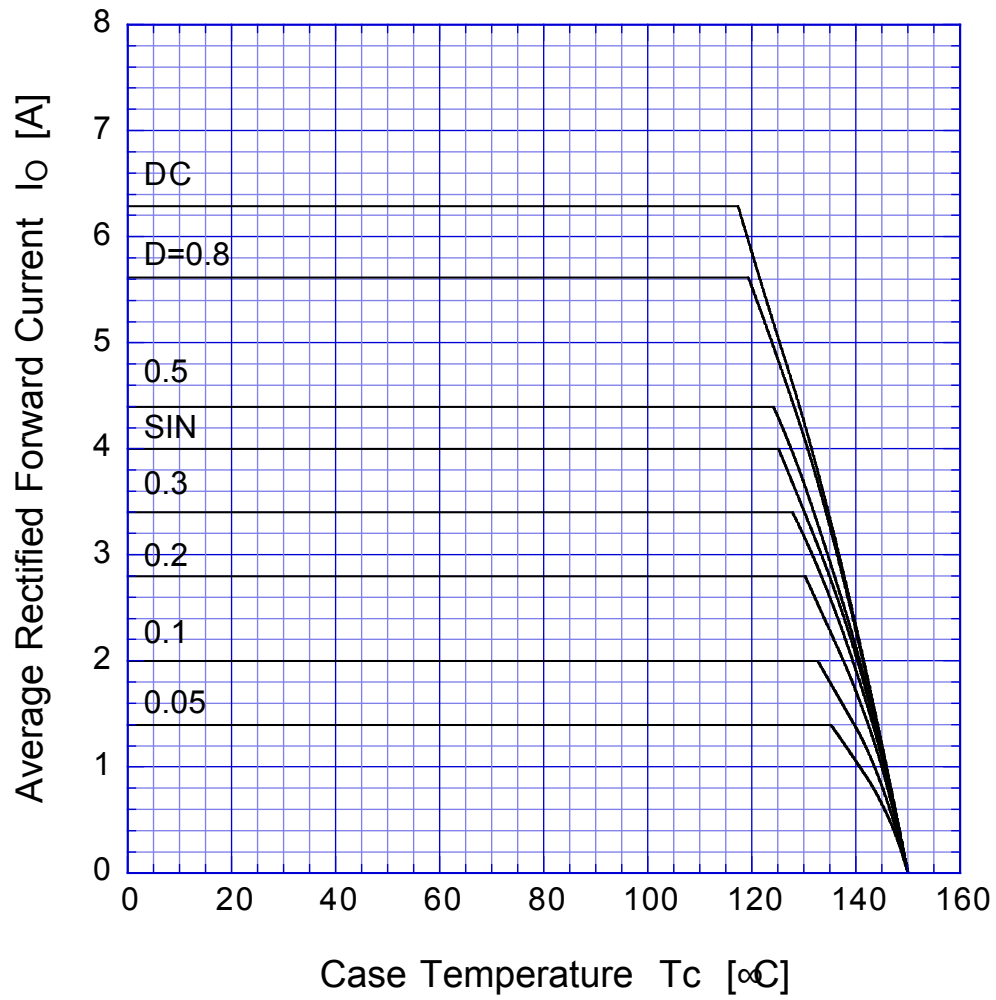


$T_j = T_{jmax}$

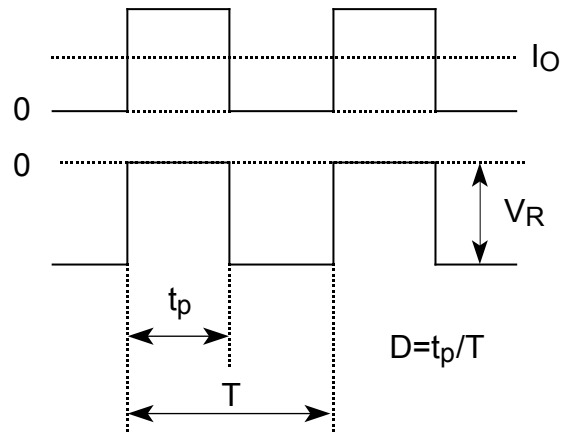


D4L40

Derating Curve

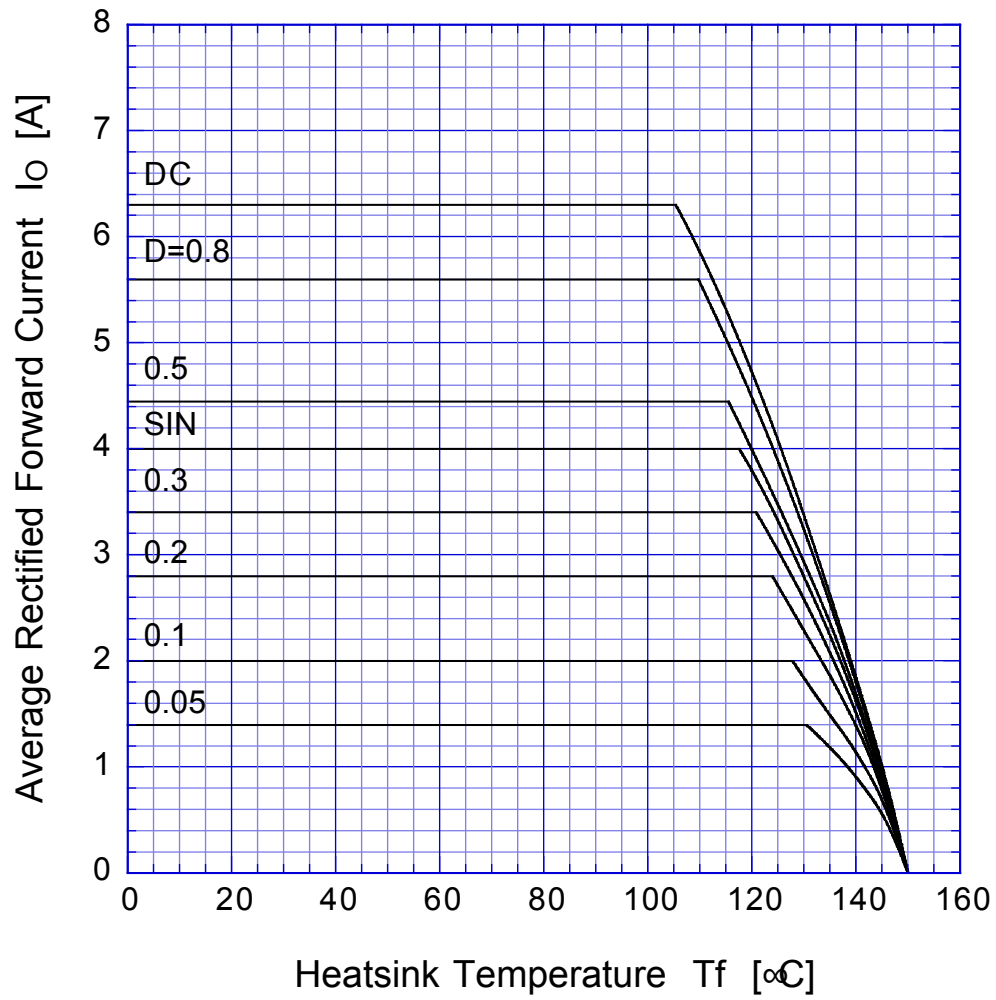


$$V_R = V_{RM}$$

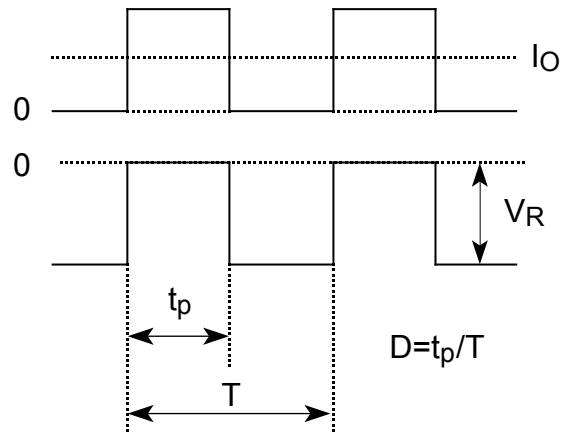


D4L40

Derating Curve

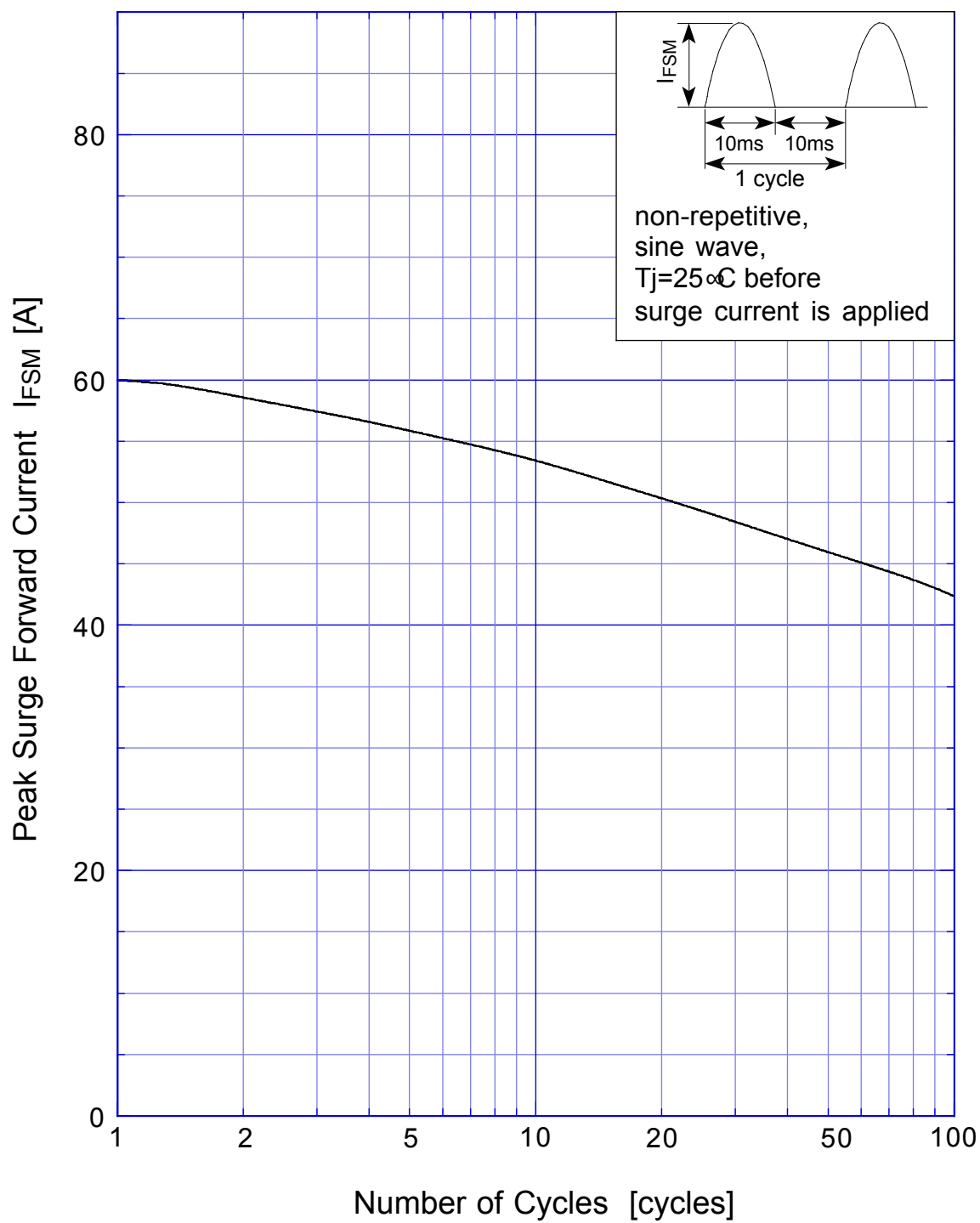


$$V_R = V_{RM}$$



D4L40

Peak Surge Forward Capability



D4L40 Junction Capacitance

