

DE5LC40

400V 5A

FEATURES

- SMT
- Low noise
- trr50ns

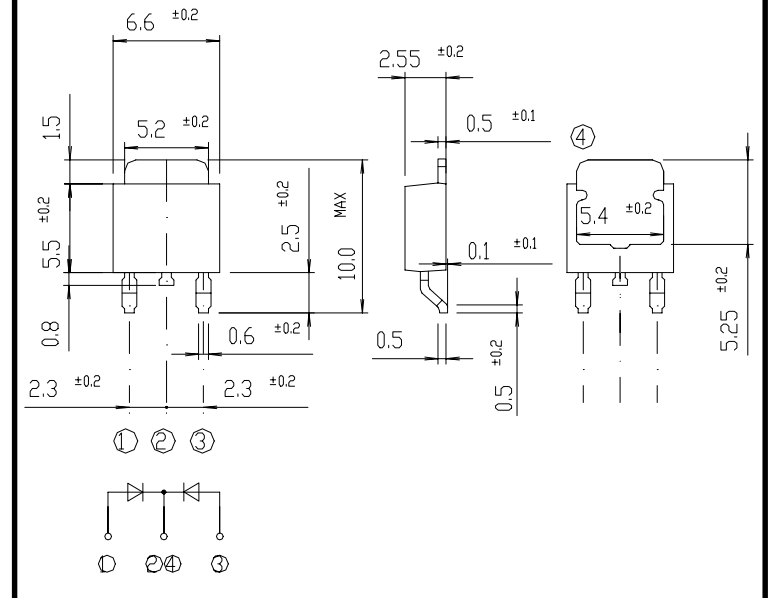
APPLICATION

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

OUTLINE DIMENSIONS

Case : E-pack

Unit : mm



RATINGS

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

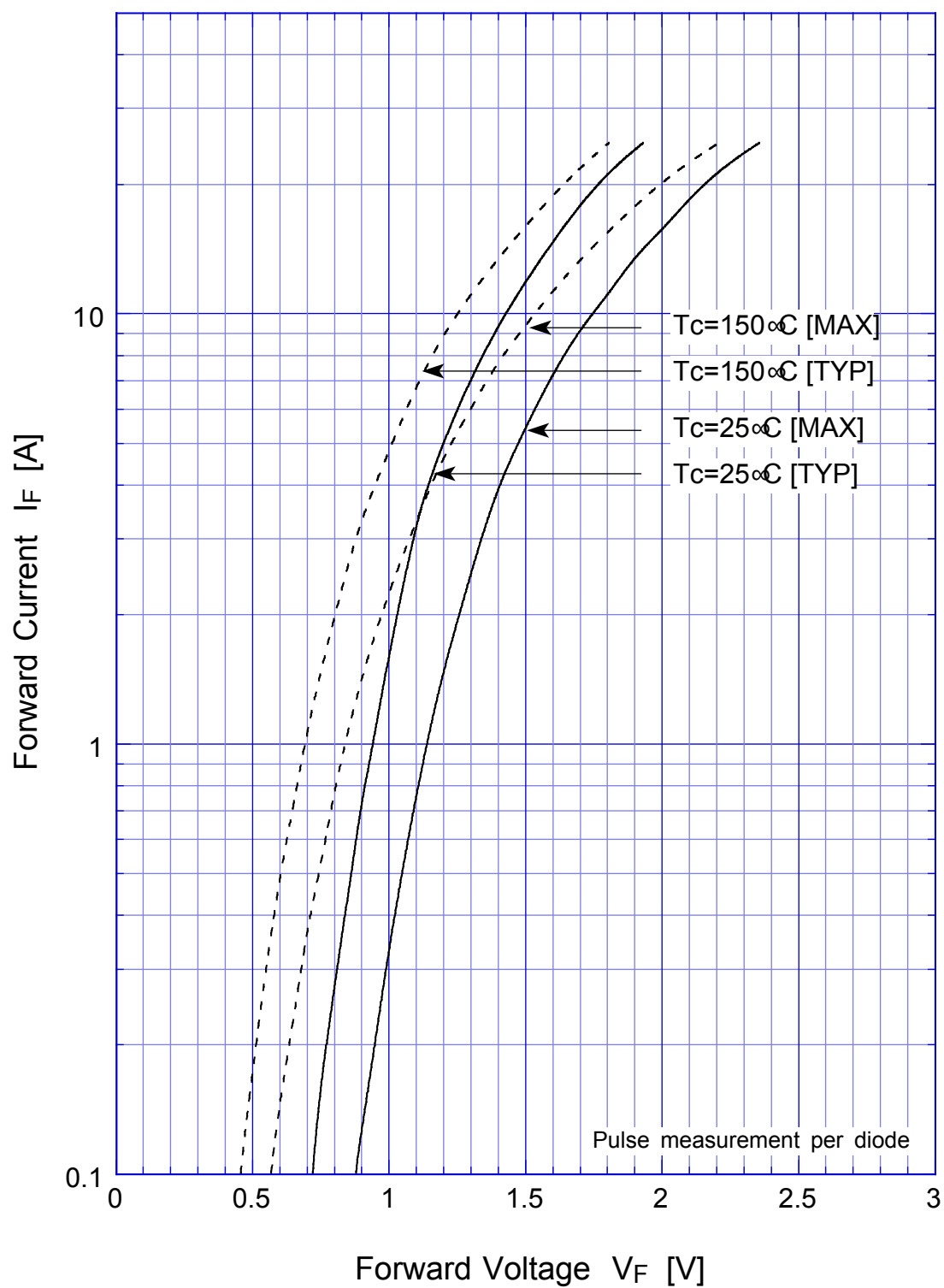
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		400	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each diode I _O /2, T _c =61°C	5	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	50	A

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

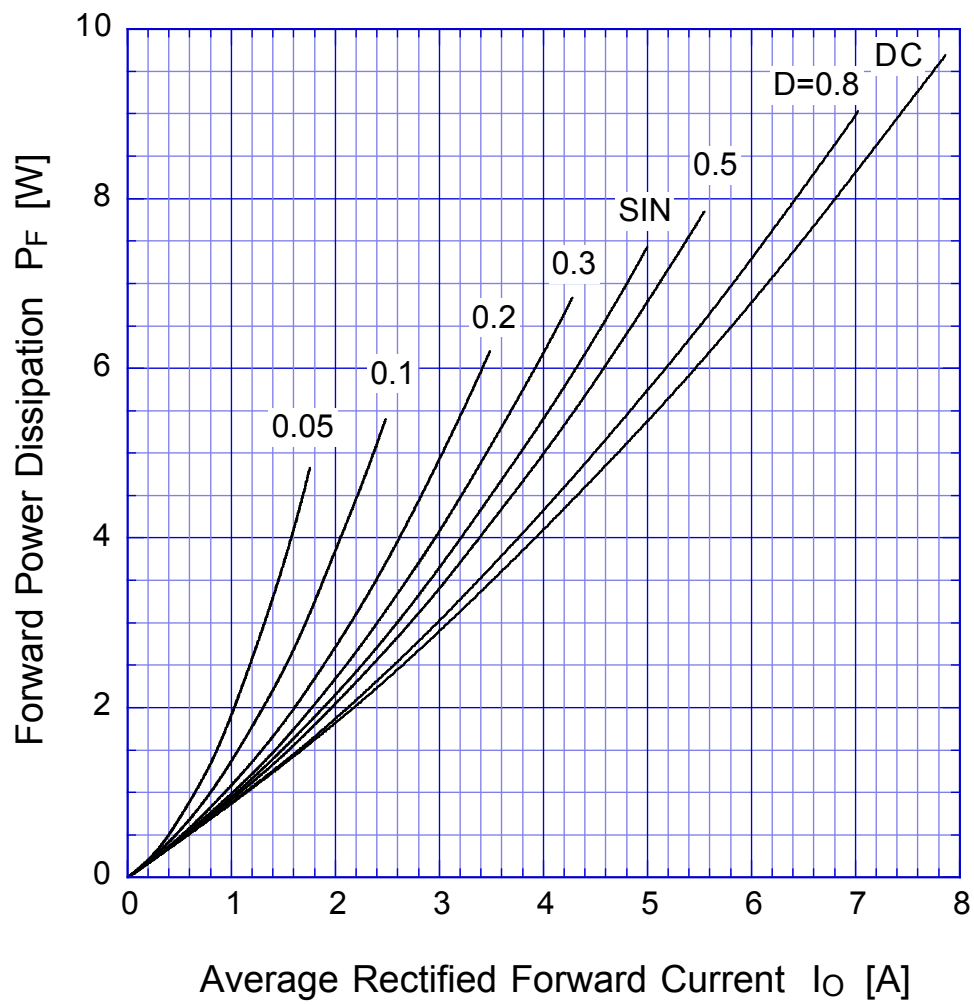
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=2.5A$, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	t_{rr}	$I_F=0.5A$, $I_R=1A$, Rating of per diode	Max.50	ns
Thermal Resistance	θ_{jc}	junction to case	Max.12	$^{\circ}C/W$
	θ_{ja}	junction to ambient	Max.55	$^{\circ}C/W$

DE5LC40

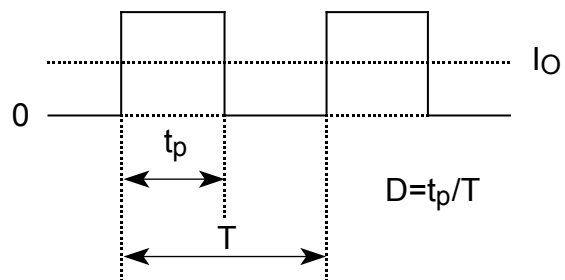
Forward Voltage



DE5LC40 Forward Power Dissipation

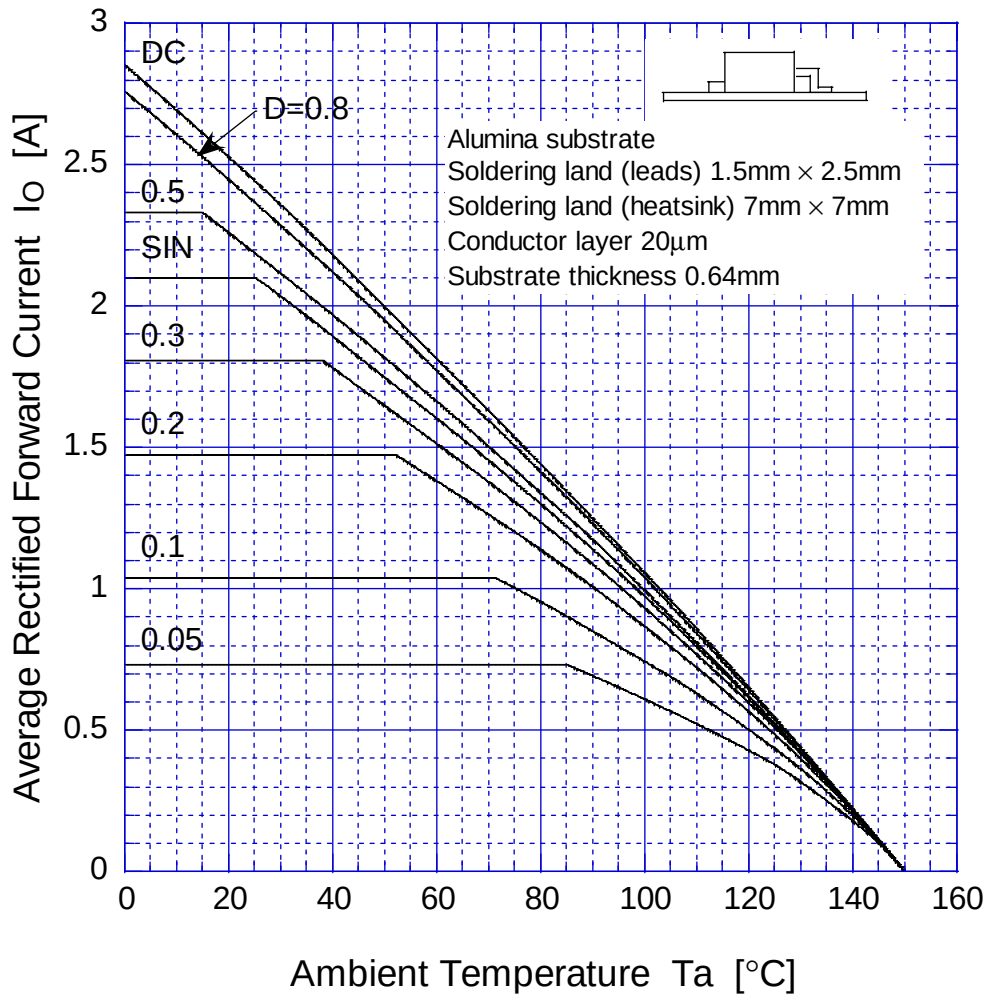


$T_j = 150^\circ\text{C}$

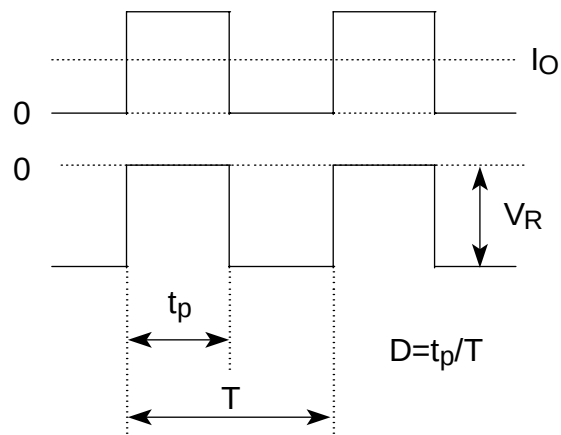


DE5LC40

Derating Curve

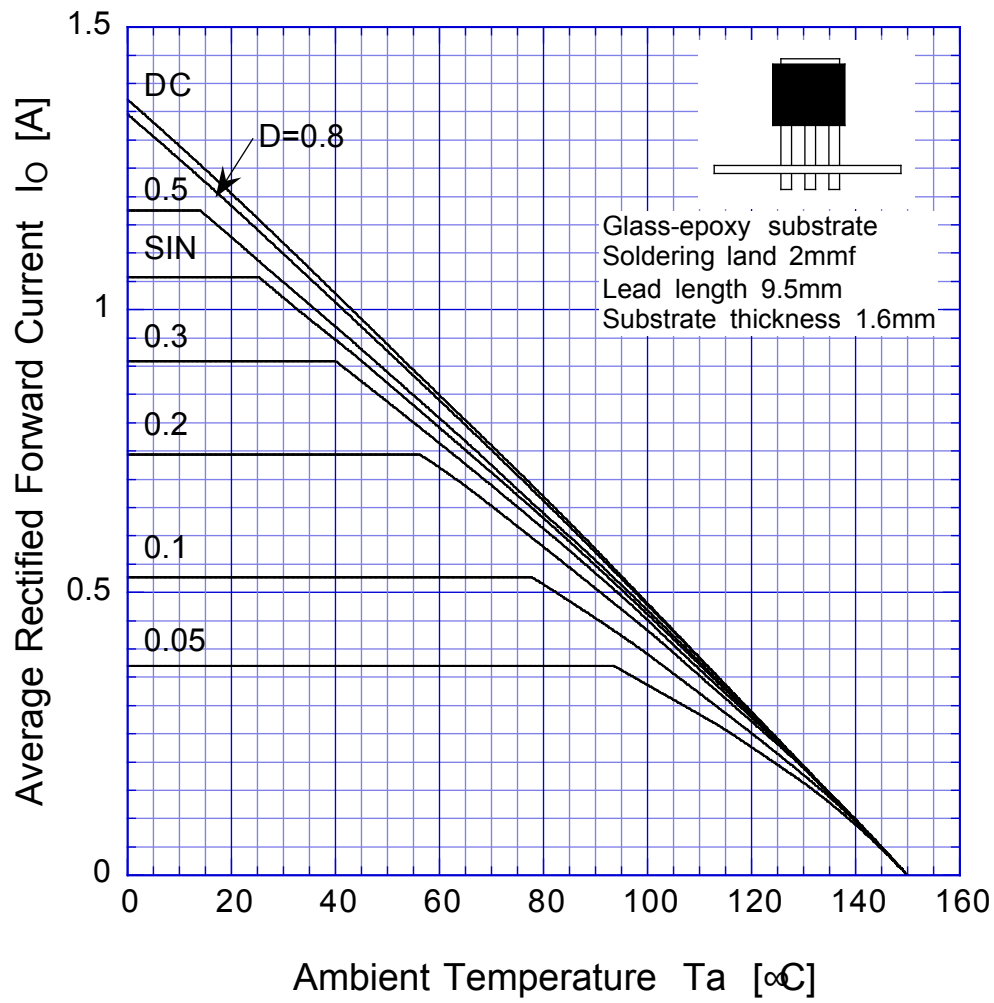


$$V_R = V_{RM}$$

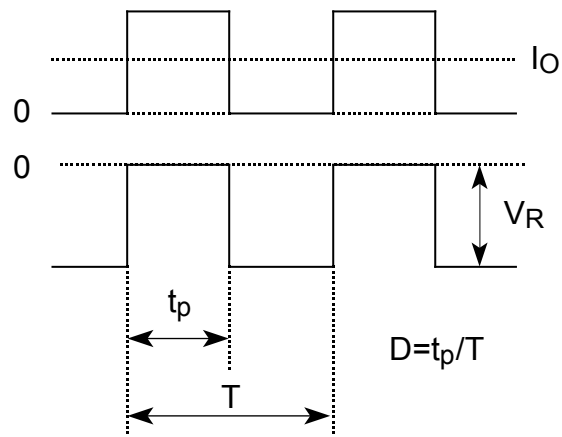


DE5LC40

Derating Curve

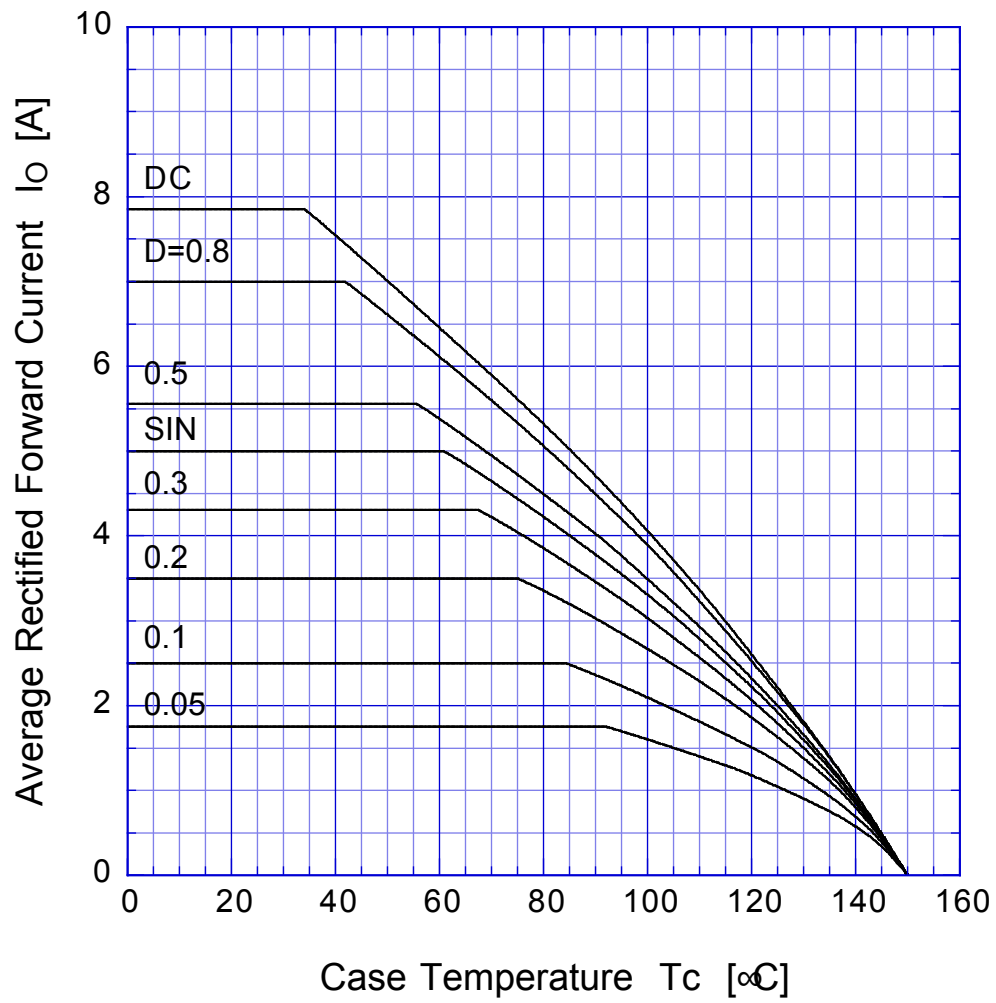


$$V_R = V_{RM}$$

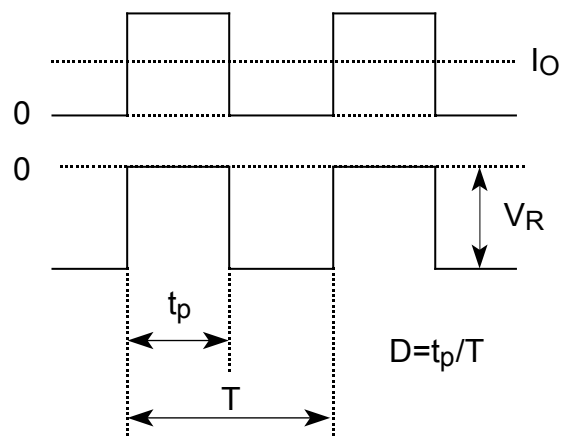


DE5LC40

Derating Curve

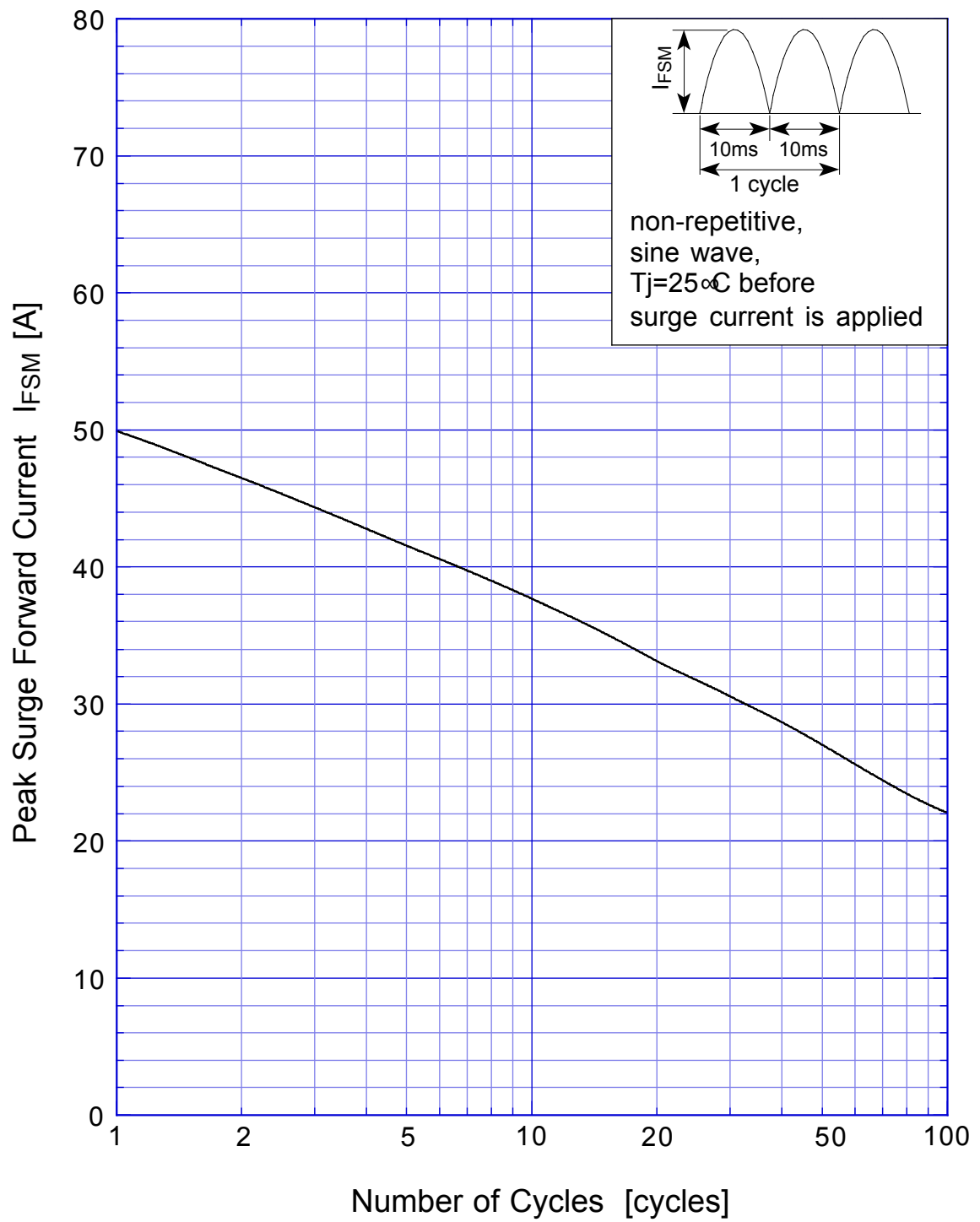


$$V_R = V_{RM}$$



DE5LC40

Peak Surge Forward Capability



DE5LC40 Junction Capacitance

