SHINDENGEN

Super Fast Recovery Rectifiers

Single

DE3L20U

200V 3A

FEATURES

- SMT
- Low noise
- trr35ns

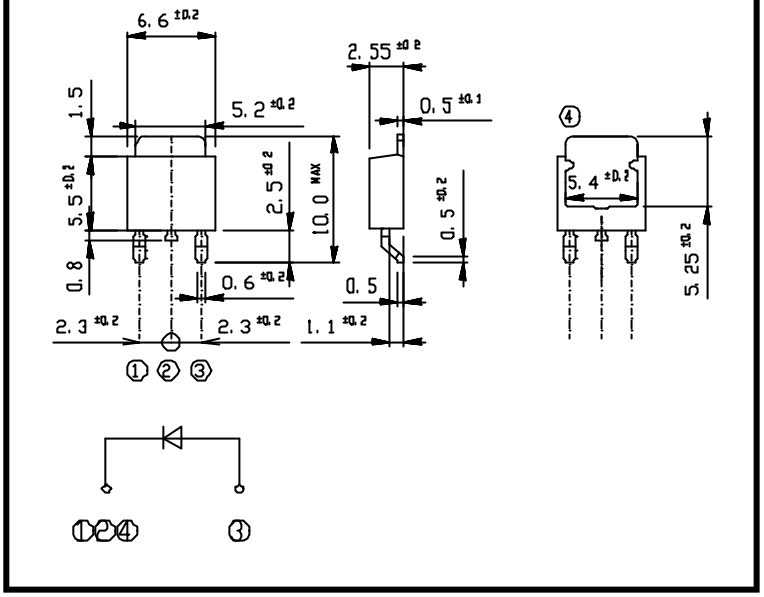
APPLICATION

- 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 Tc=25°C)

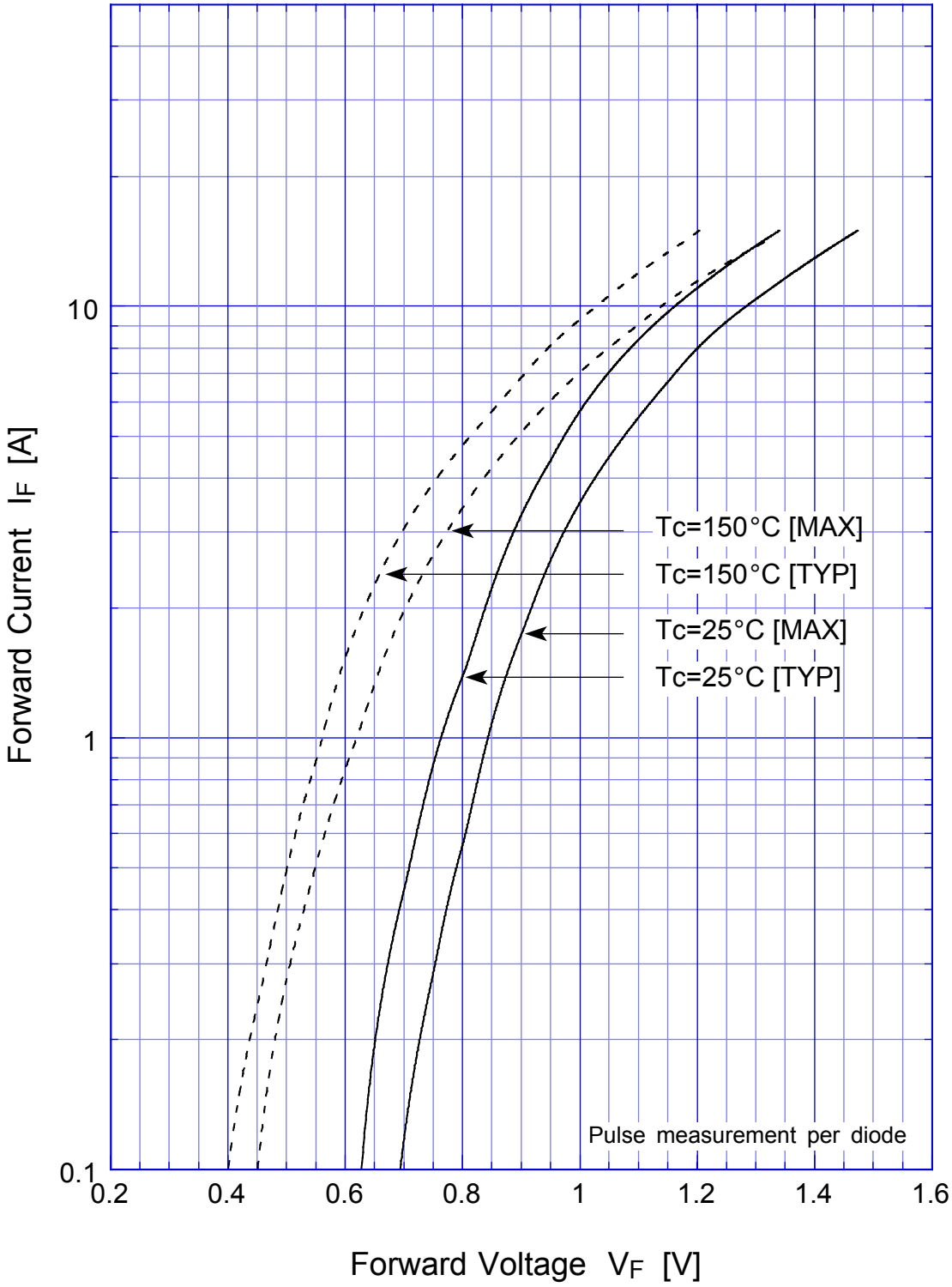
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Tc=113°C	3	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	60	A

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

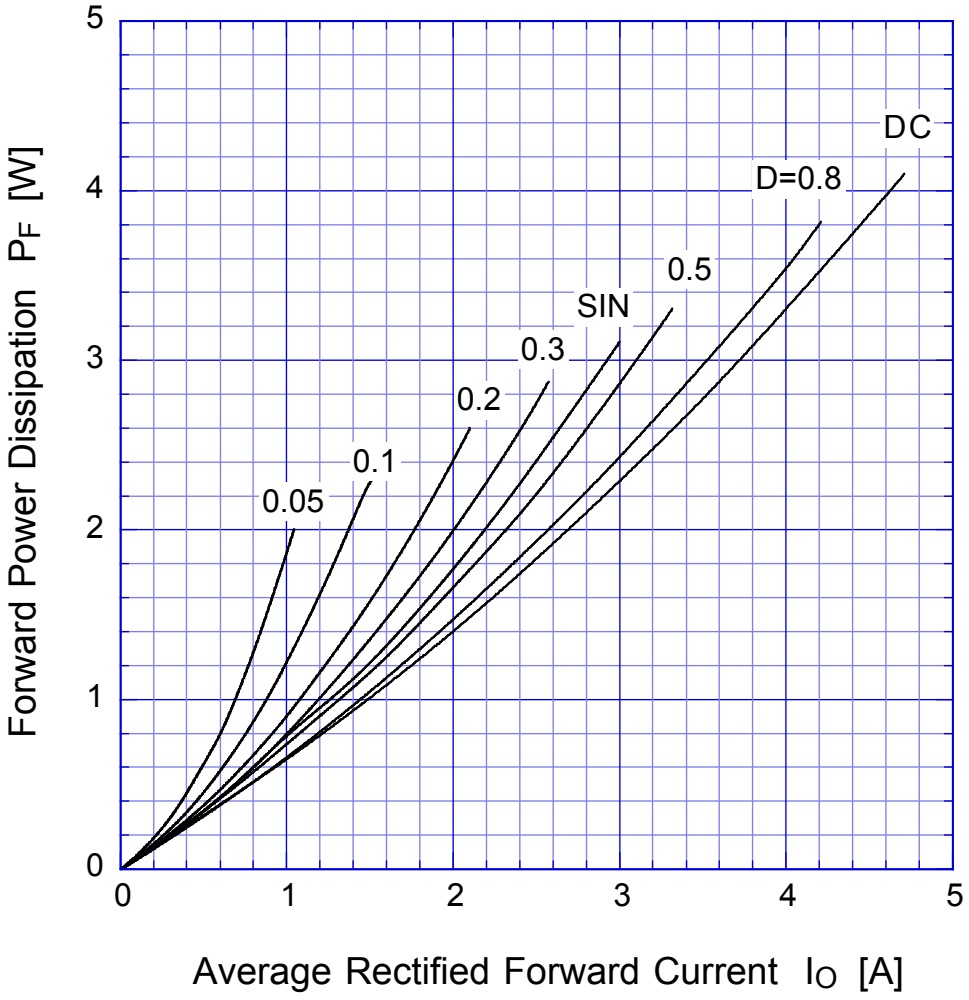
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=3A, Pulse measurement	Max.0.98	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement	Max.10	μA
Reverse Recovery Time	trr	I_F=0.5A, I_R=1A	Max.35	ns
Thermal Resistance	θjc	junction to case	Max.12	°C/W

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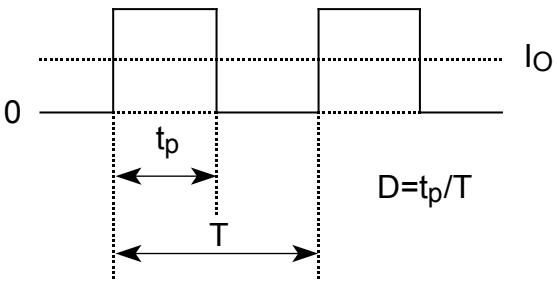
DE3L20U Forward Voltage



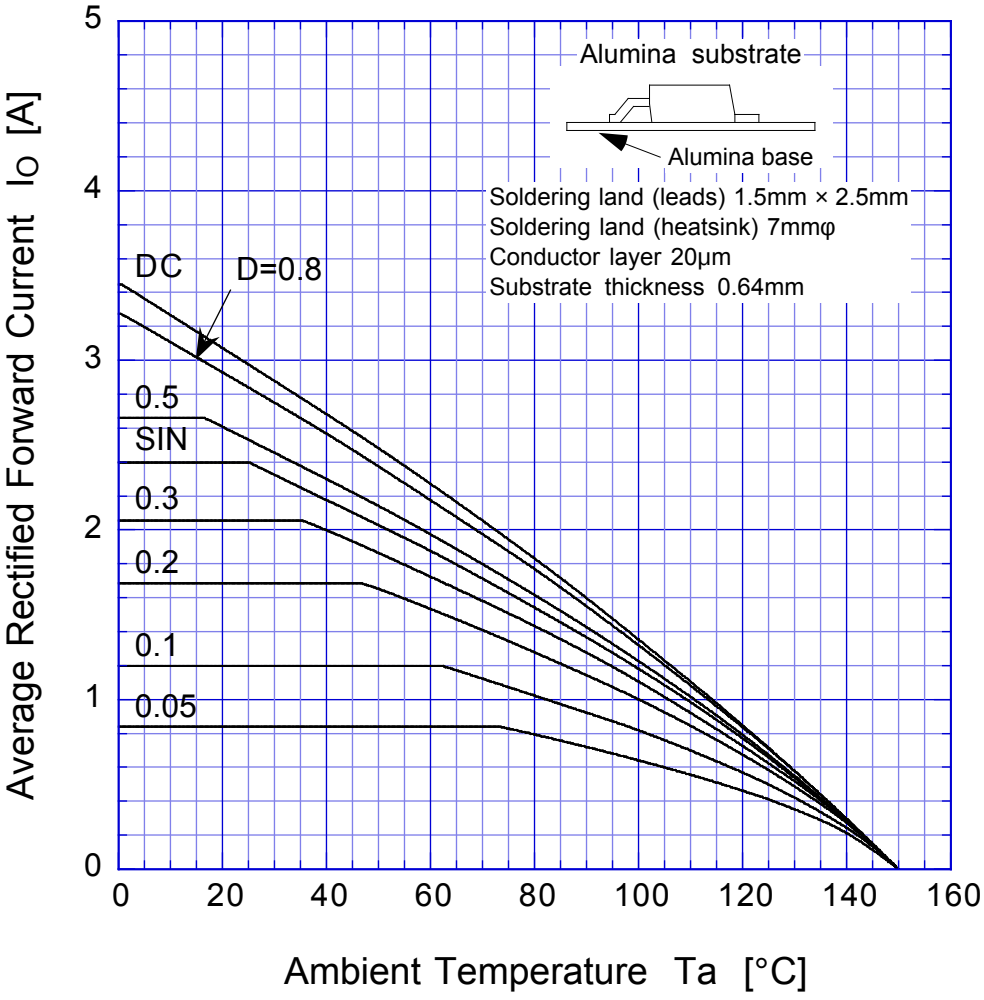
DE3L20U Forward Power Dissipation



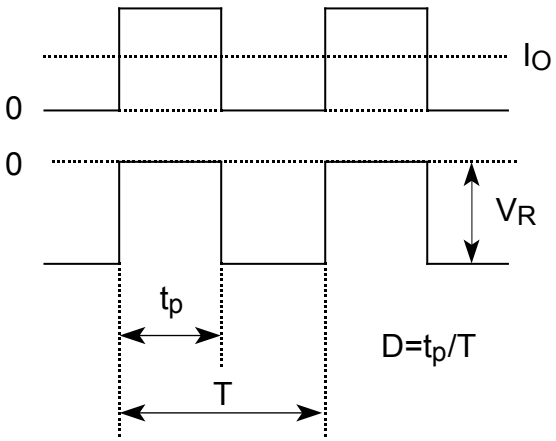
Tj = 150°C



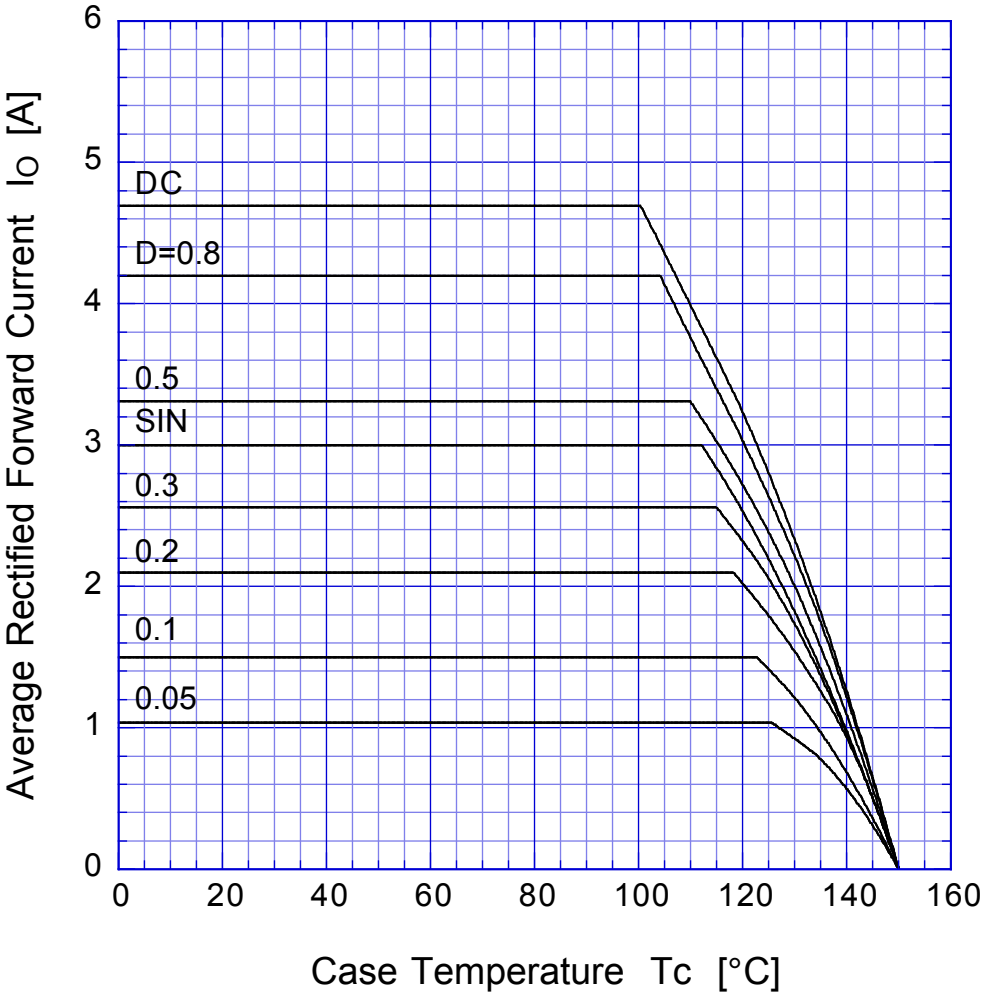
DE3L20U Derating Curve



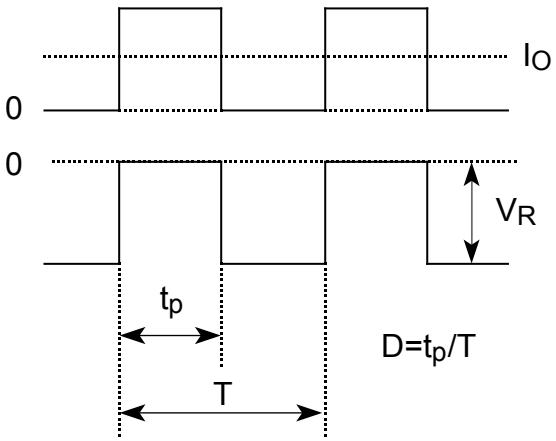
V_R = 200V



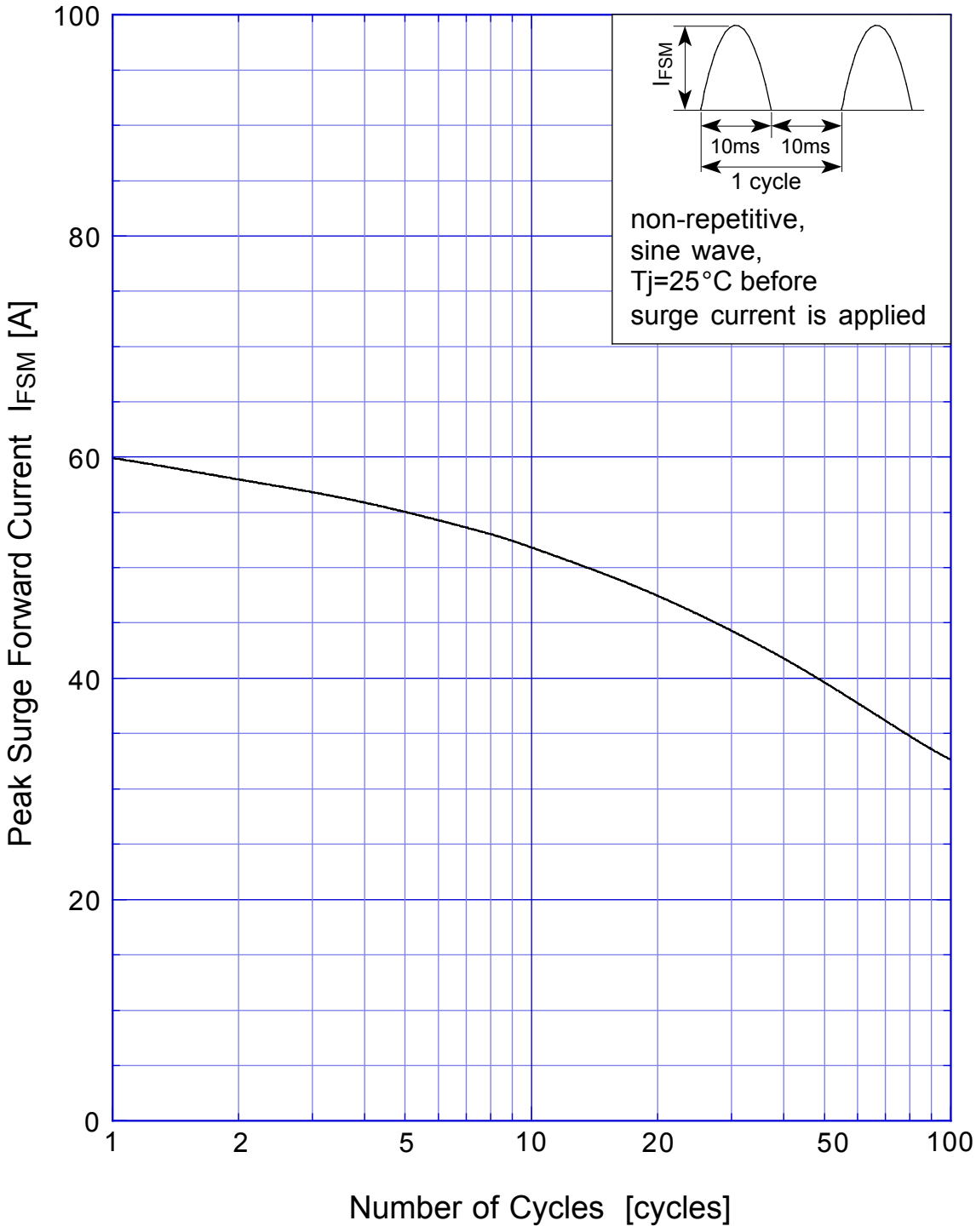
DE3L20U Derating Curve



V_R = 200V



DE3L20U Peak Surge Forward Capability



DE3L20U Junction Capacitance

