SHINDENGEN

Super Fast Recovery Rectifiers

Dual

D8LC40

400V 8A

FEATURES

- Low noise
- trr50ns
- Fully Isolated Molding

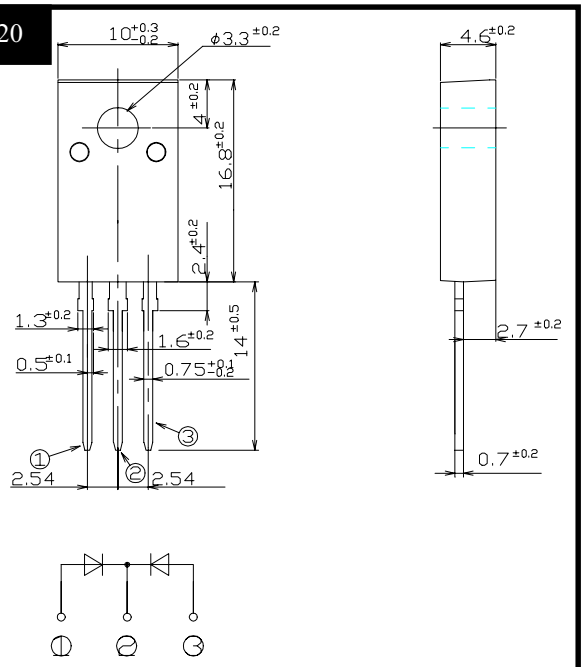
APPLICATION

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

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

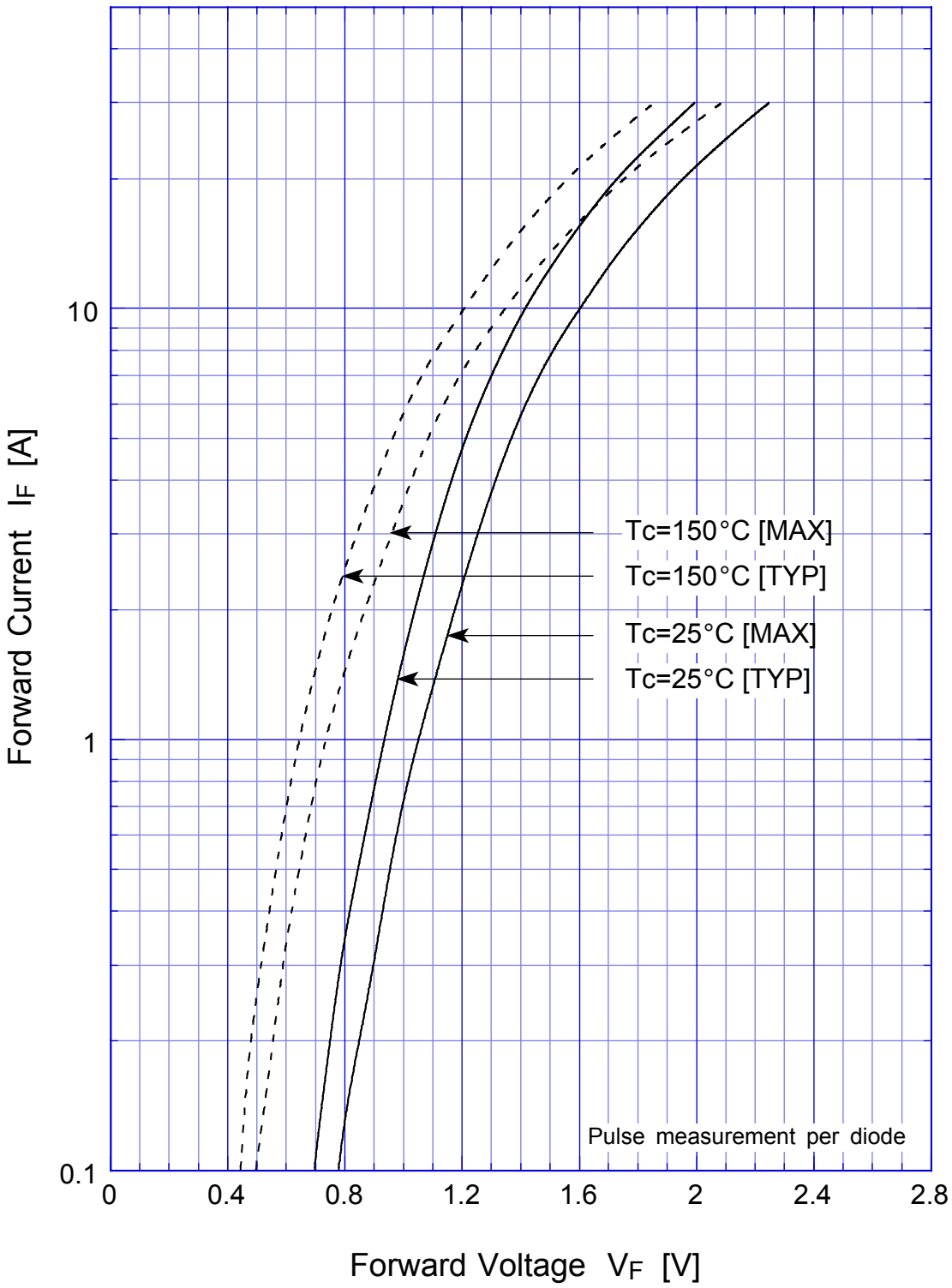
●Absolute Maximum Ratings (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		400	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=114℃	8	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	60	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	1.5	kV
Mounting Torque	TOR	(Recommended torque:0.3N･m)	0.5	N･m

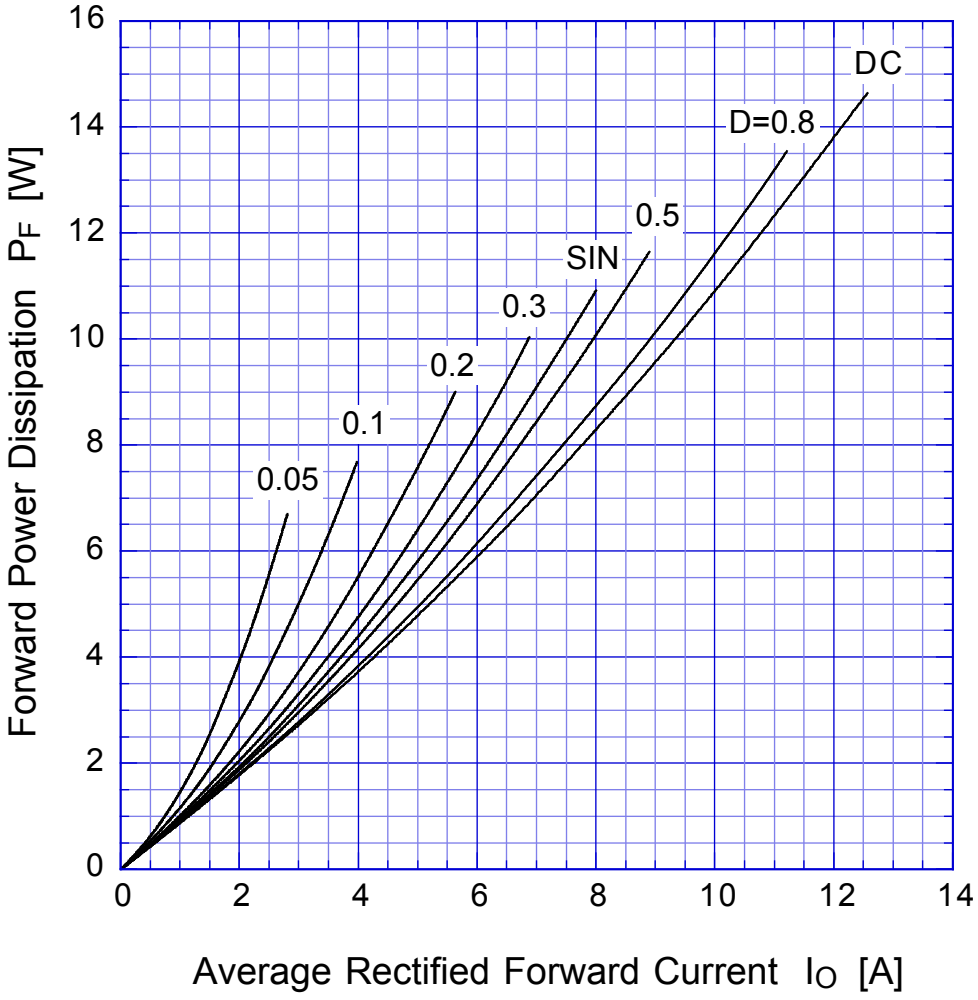
●Electrical Characteristics (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=4A, 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	trr	I_F=0.5A, I_R=1A, Rating of per diode	Max.50	ns
Thermal Resistance	θjc	junction to case	Max.3.3	℃/W

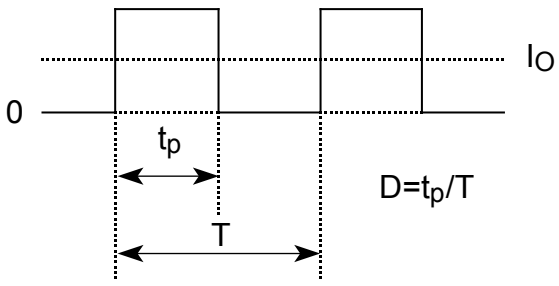
D8LC40 Forward Voltage



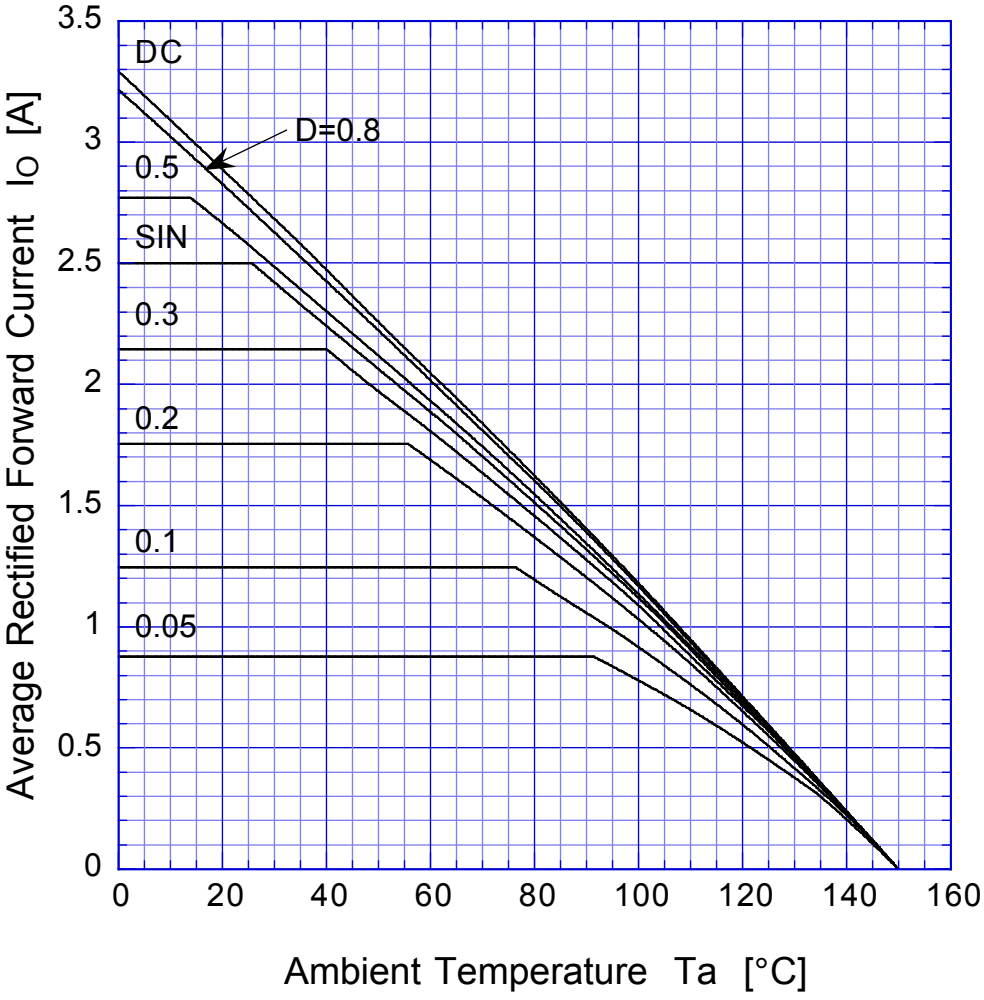
D8LC40 Forward Power Dissipation

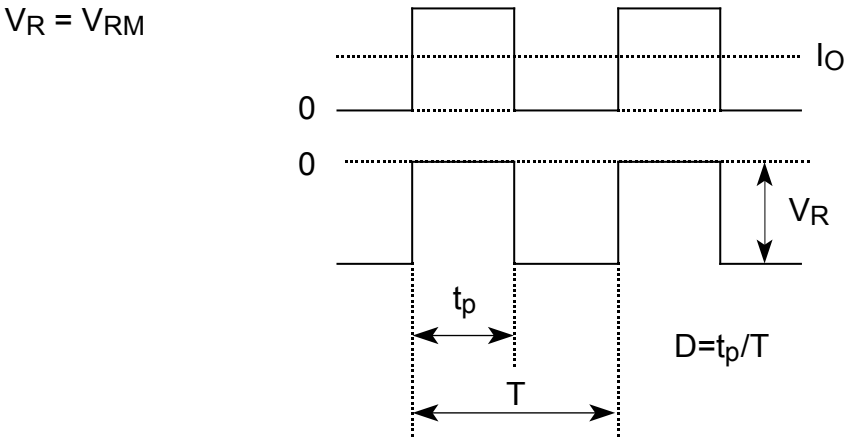


Tj = 150°C

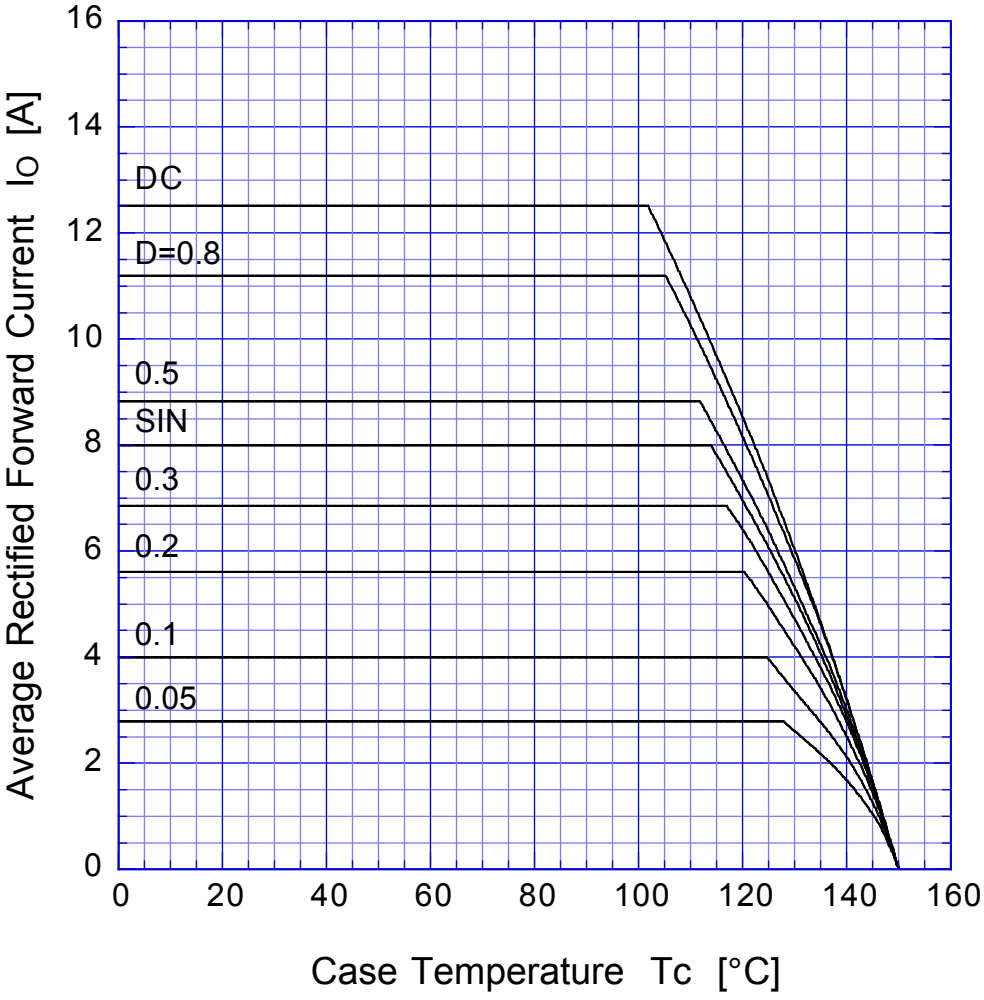


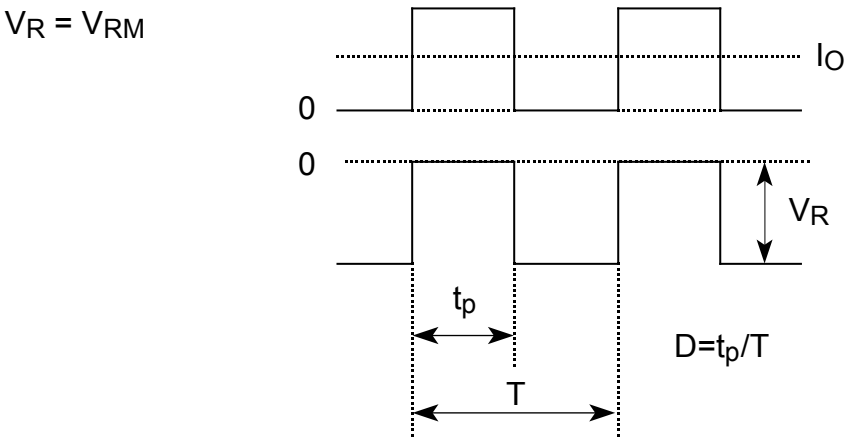
D8LC40 Derating Curve



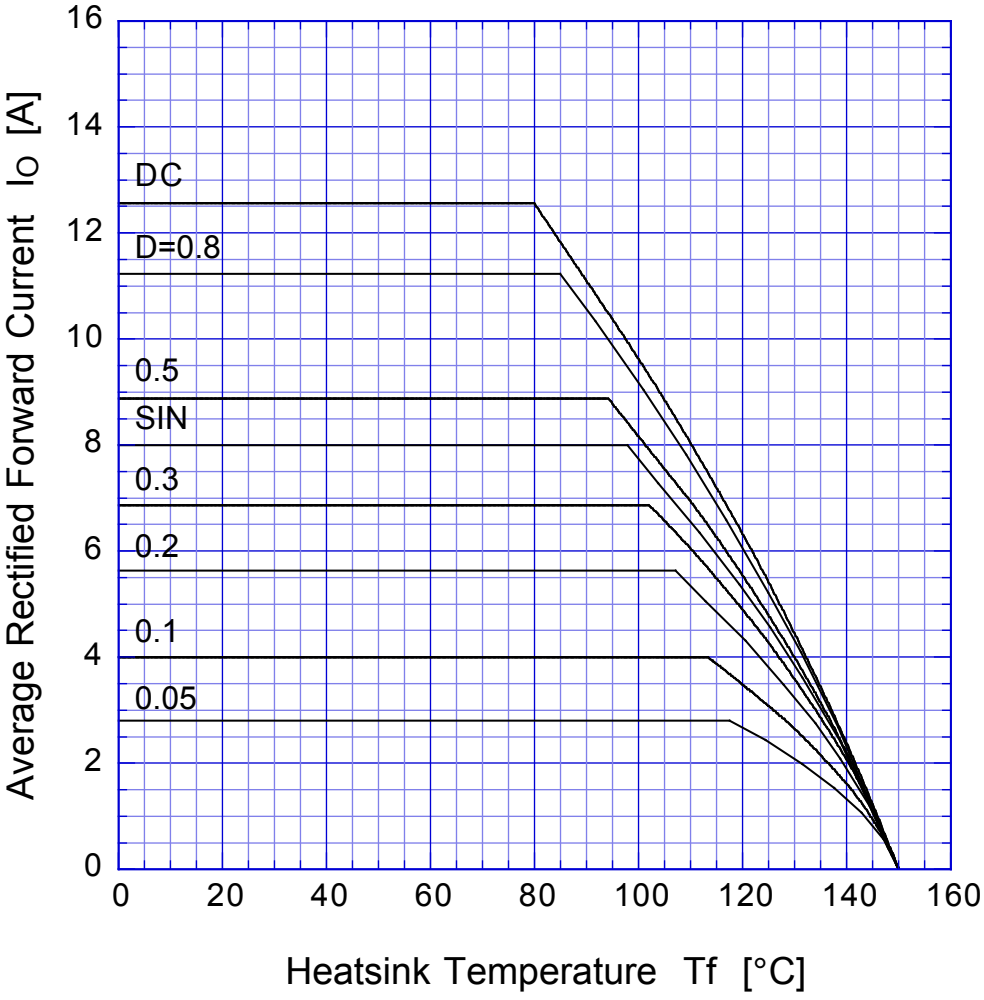


D8LC40 Derating Curve

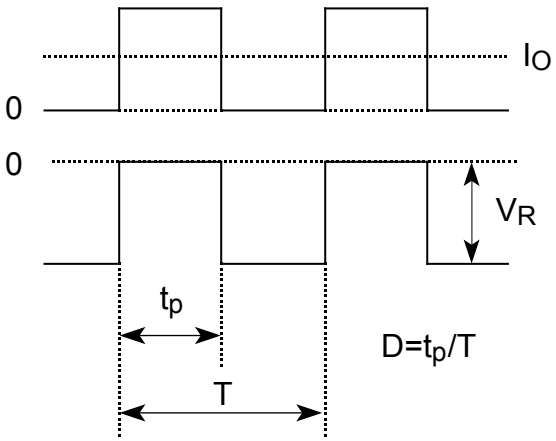




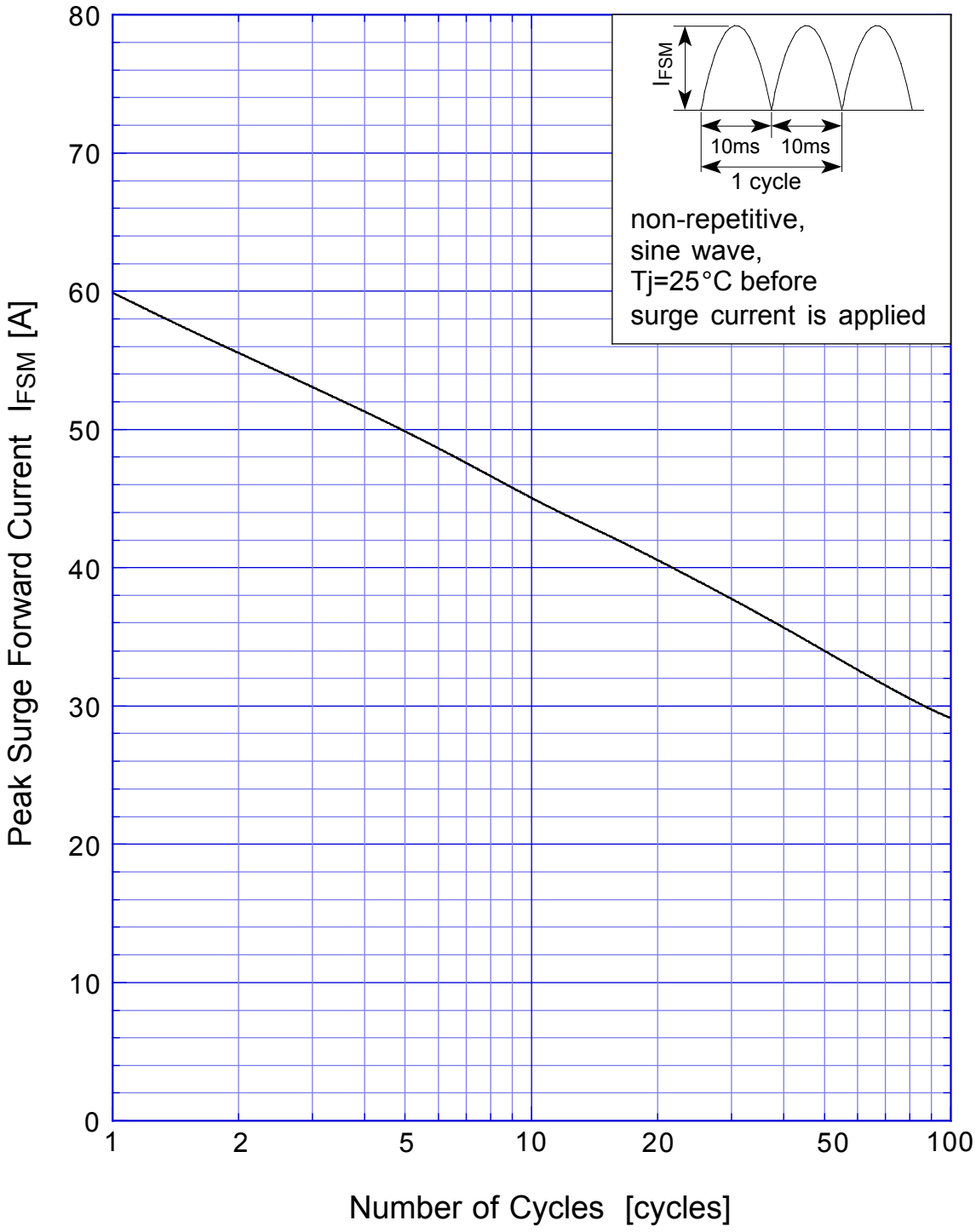
D8LC40 Derating Curve

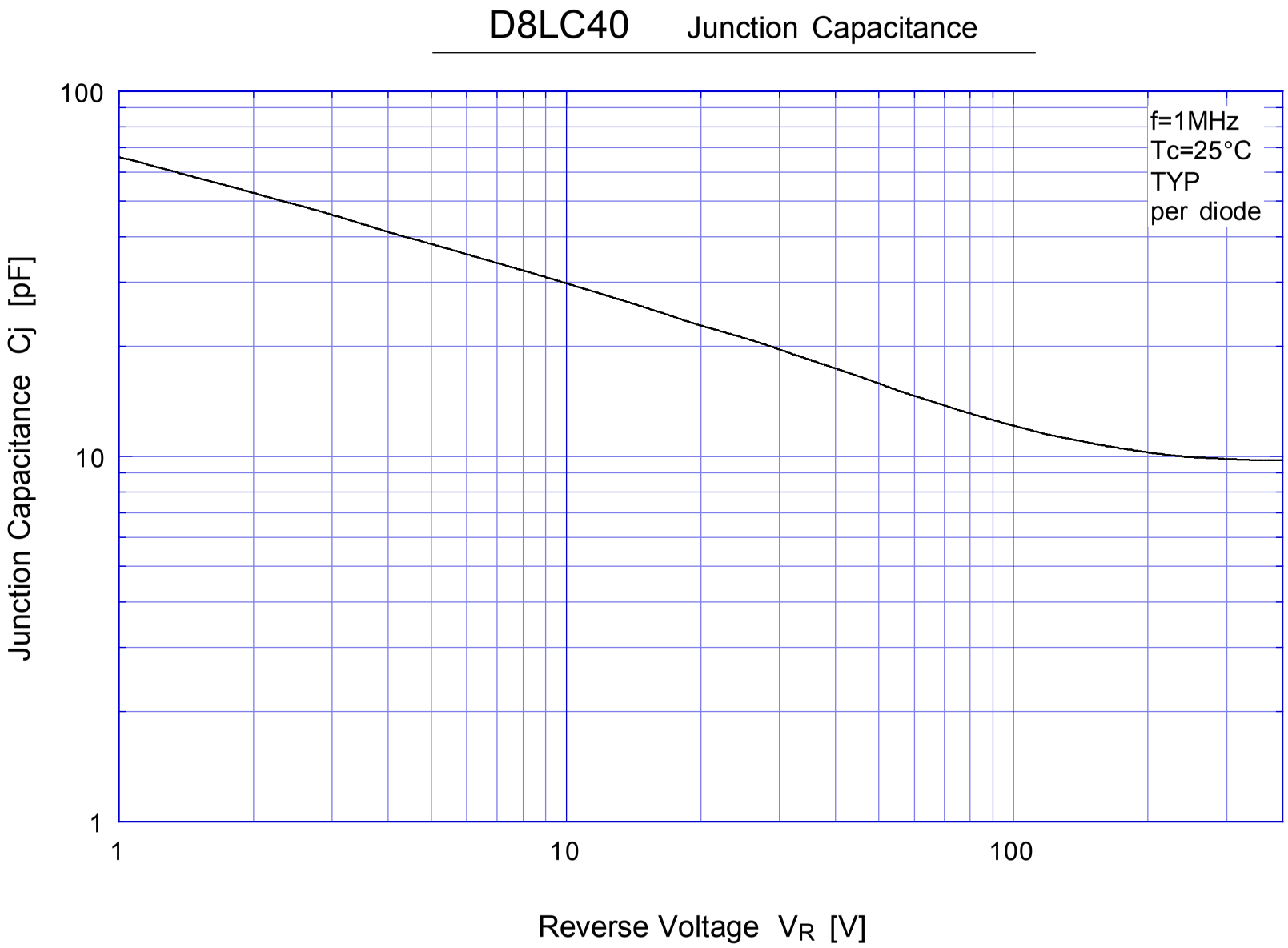


$V_R = V_{RM}$



D8LC40 Peak Surge Forward Capability




D8LC40 Junction Capacitance
f=1MHz
Tc=25°C
TYP
per diode
Junction Capacitance Cj [pF]
100
10
1
1
10
100
Reverse Voltage VR [V]