SHINDENGEN

Super Fast Recovery Rectifiers

Single

S2L60

600V 1.5A

FEATURES

- High voltage super FRD
- Low noise
- trr50ns
- Applicable to Automatic Insertion

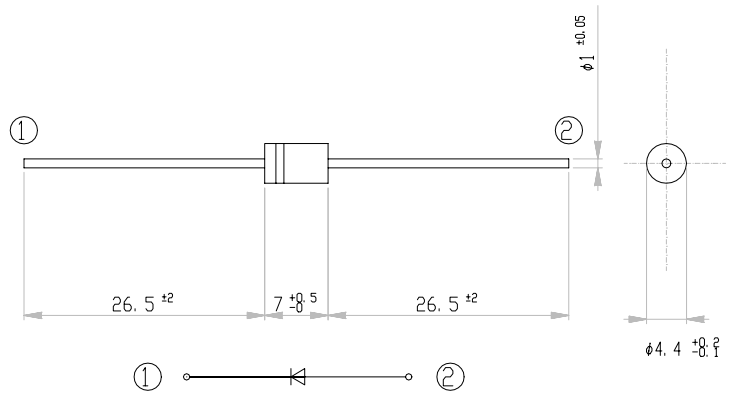
APPLICATION

- PFC
- Switching power supply
- Free Wheel
- Home Appliances, Office Equipment

OUTLINE DIMENSIONS

Case : AX10

(Unit : mm)



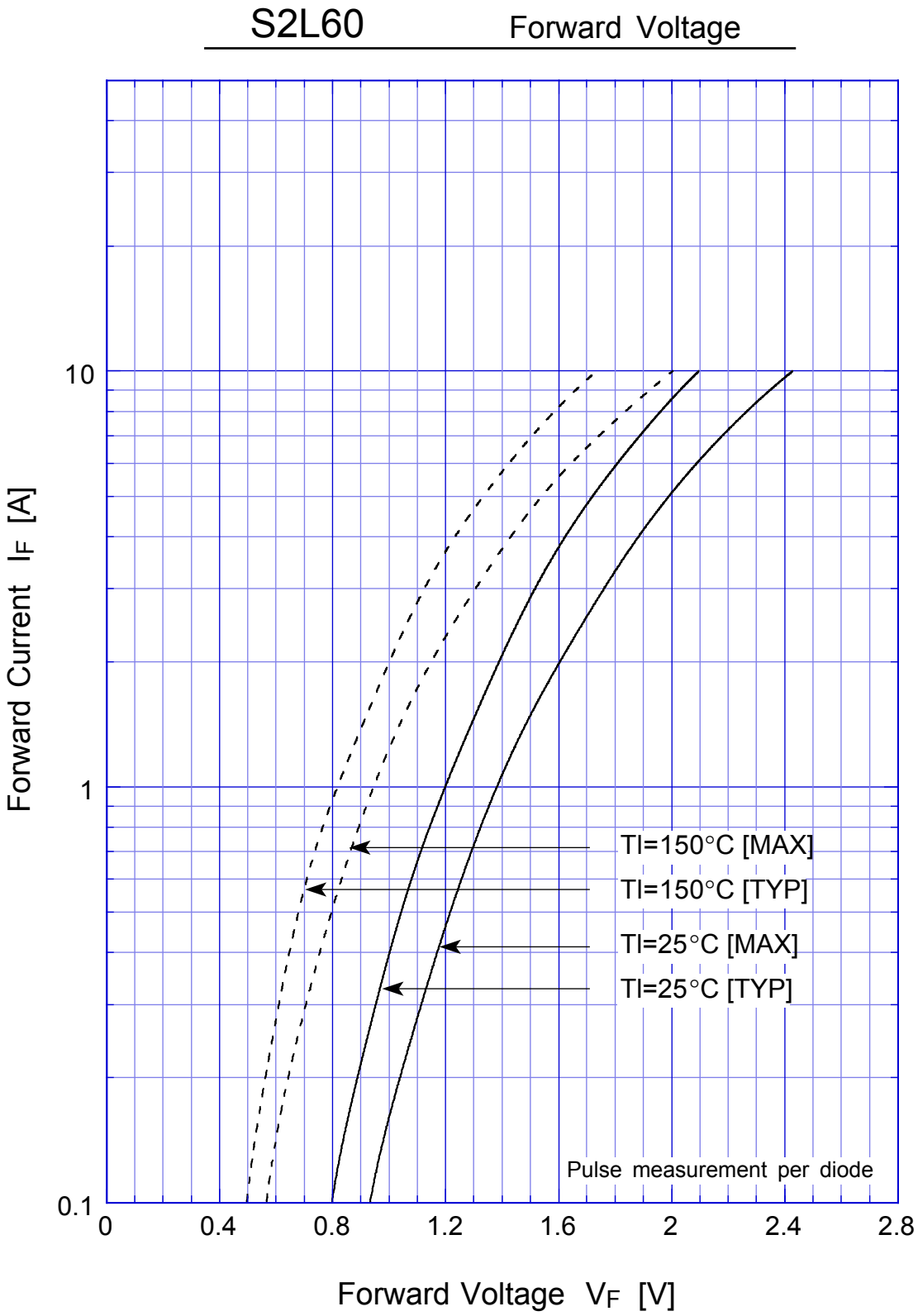
RATINGS

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

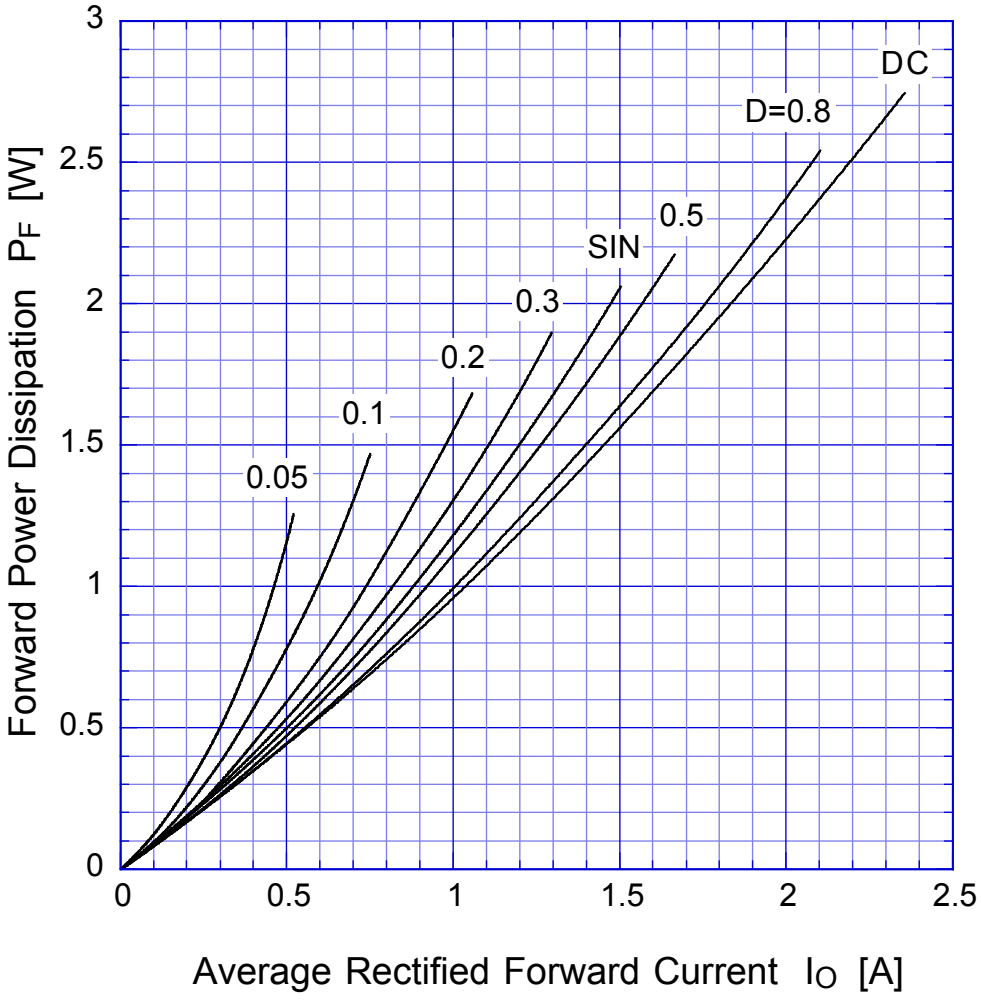
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−55～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Ta=25℃	1.2	A
		50Hz sine wave, R-load, Tl=125℃	1.5	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	50	A

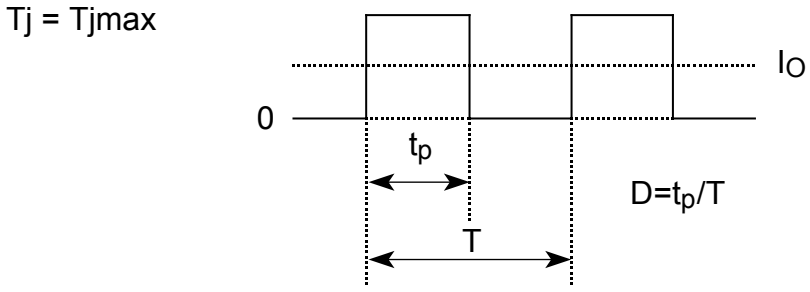
●Electrical Characteristics (If not specified Tl=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=1.5A, Pulse measurement	Max.1.5	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 jl	junction to lead	Max.12	℃/W
	θ ja	junction to ambient	Max.83	

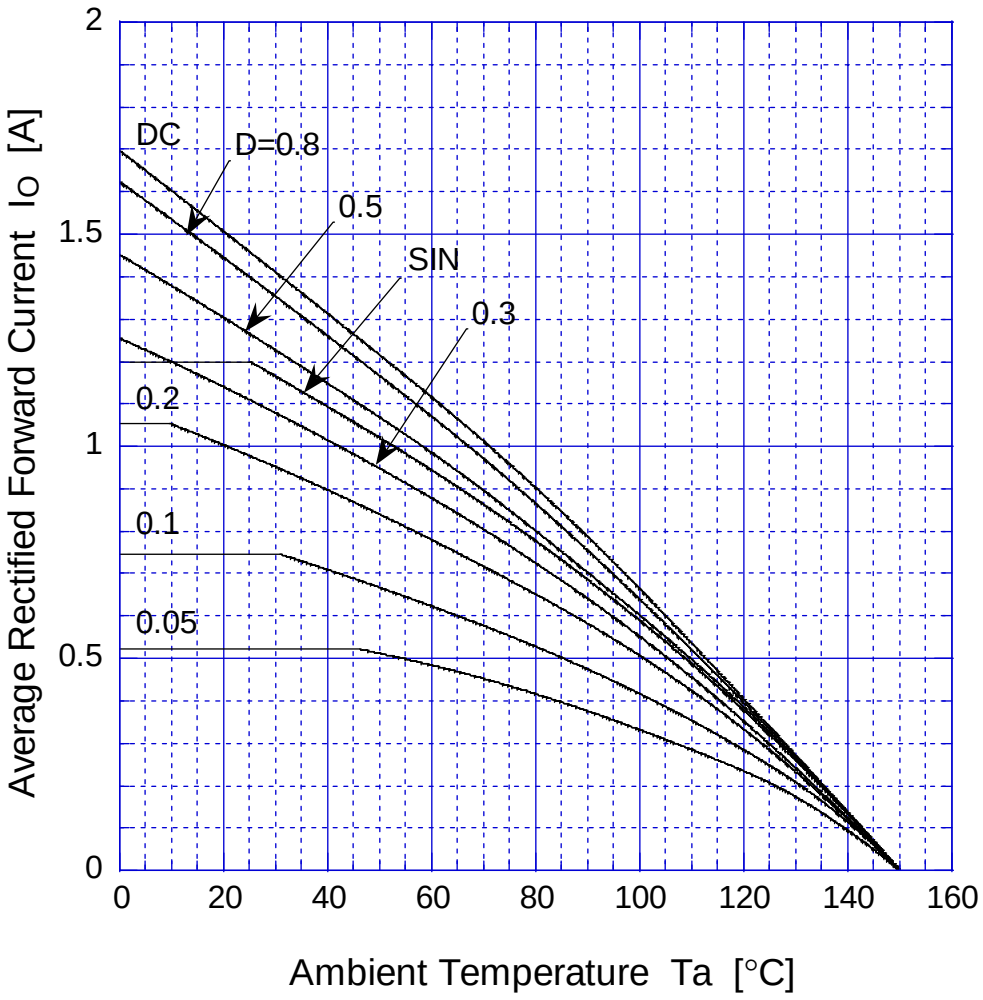

S2L60
Forward Voltage
Forward Current IF [A]
10
1
0.1
0
0.4
0.8
1.2
1.6
2
2.4
2.8
Forward Voltage VF [V]
Tl=150°C [MAX]
Tl=150°C [TYP]
Tl=25°C [MAX]
Tl=25°C [TYP]
Pulse measurement per diode

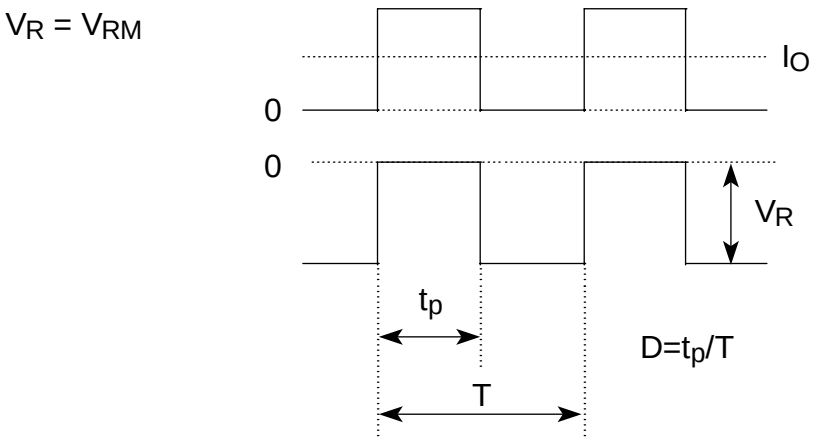
S2L60 Forward Power Dissipation



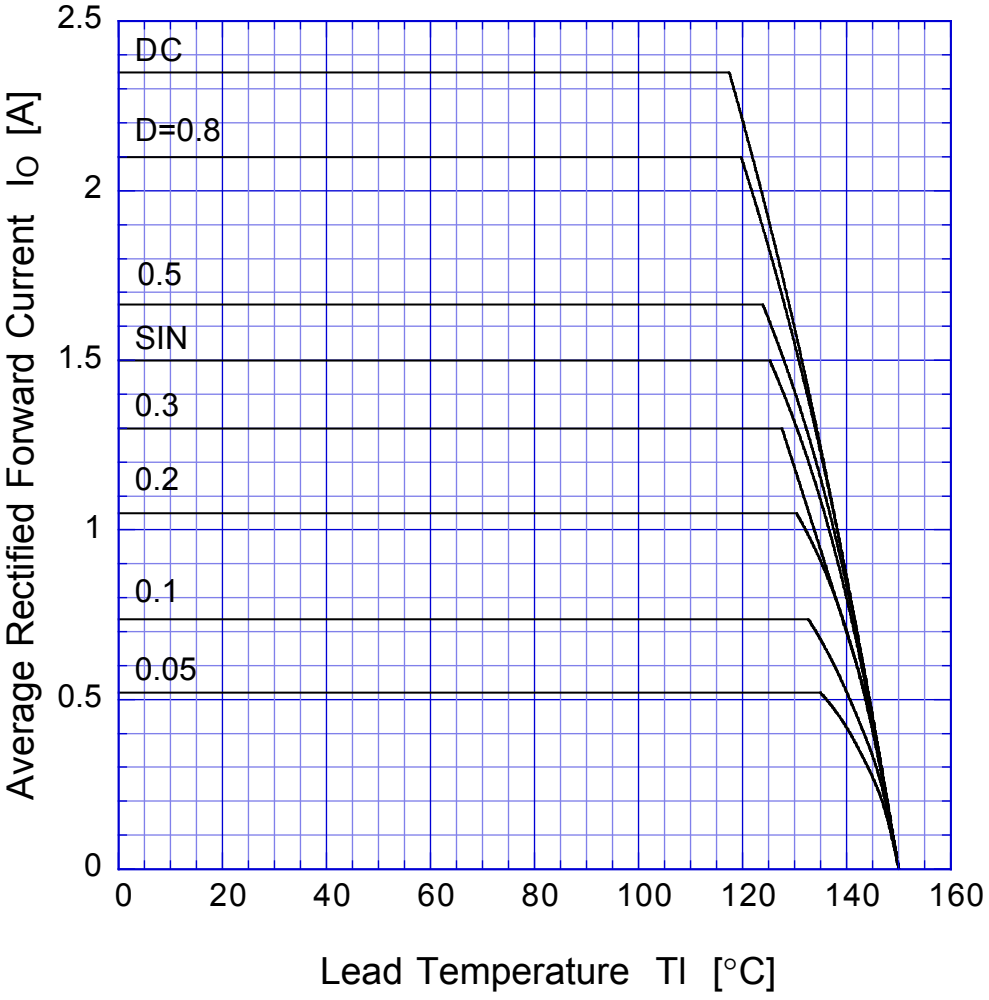


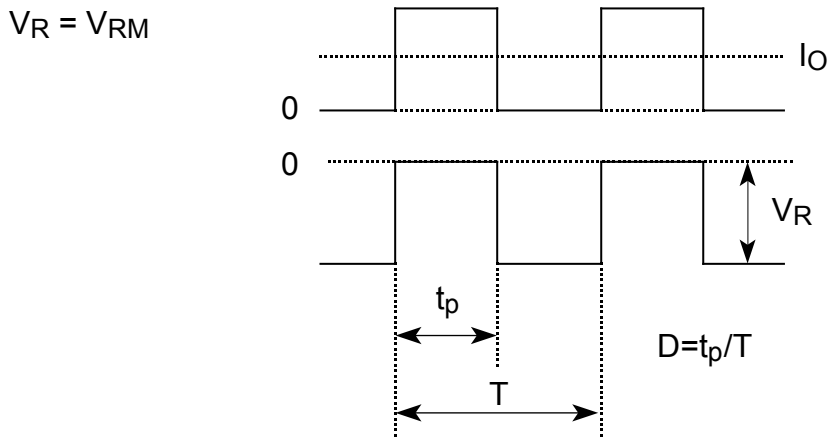
S2L60 Derating Curve



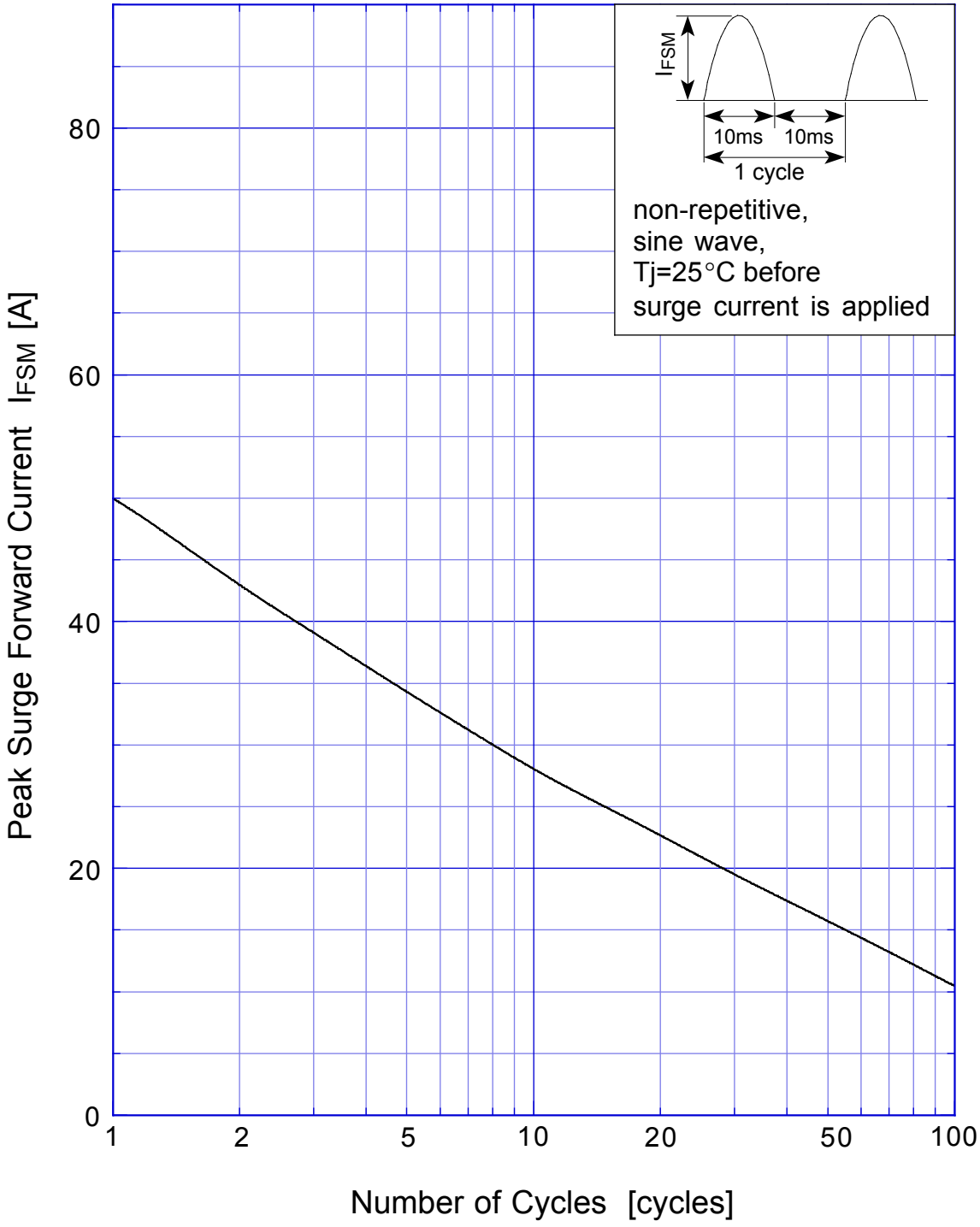


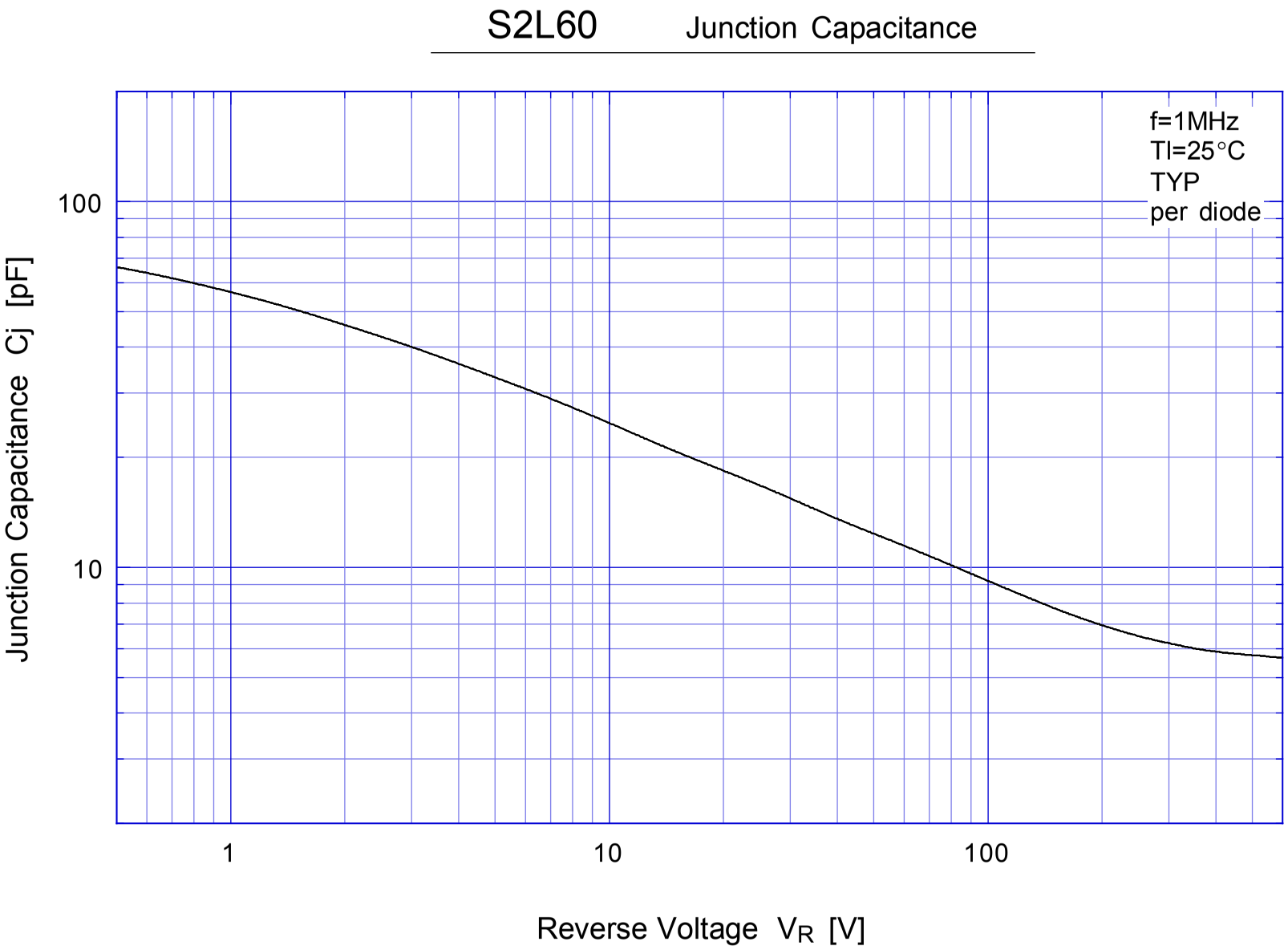
S2L60 Derating Curve





S2L60 Peak Surge Forward Capability




S2L60
Junction Capacitance
f=1MHz
Tl=25°C
TYP
per diode
100
10
1
10
100
Junction Capacitance Cj [pF]
Reverse Voltage VR [V]