SHINDENGEN

Super Fast Recovery Rectifiers

Dual

D5LC20U

200V 5A

FEATURES

- Low noise
- trr35ns
- Fully Isolated Molding

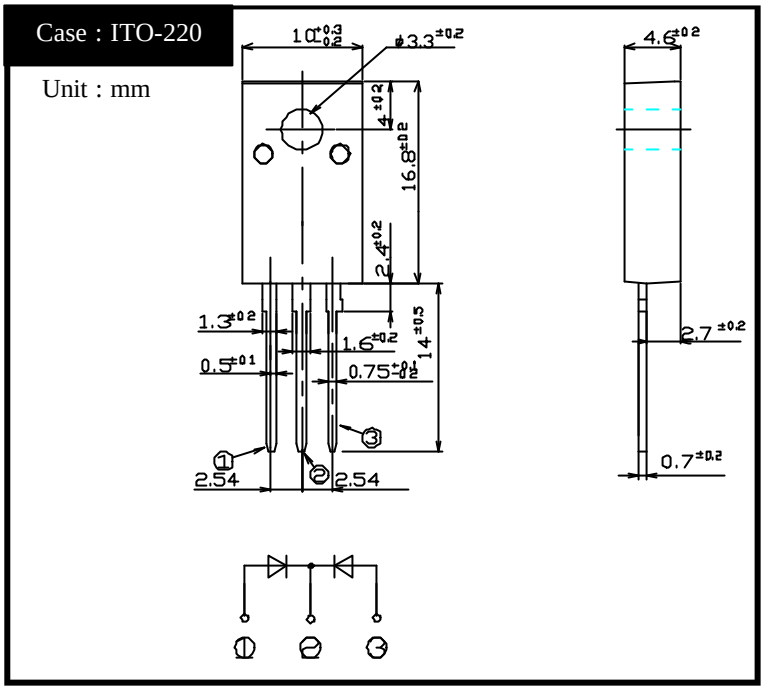
APPLICATION

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

OUTLINE DIMENSIONS

Case : ITO-220

Unit : mm



RATINGS

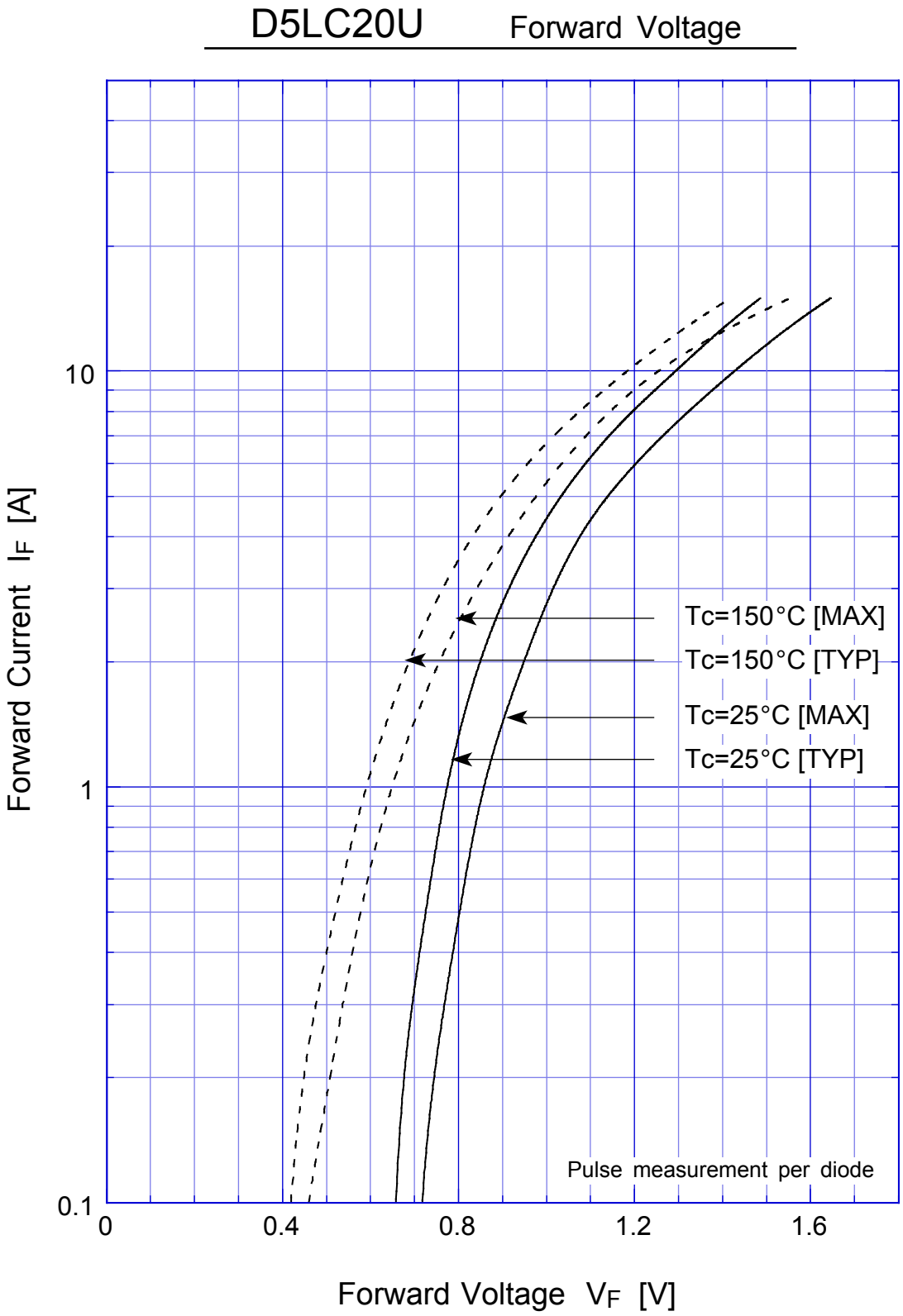
●Absolute Maximum Ratings (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	Io	50Hz sine wave, R-load, Rating for each diode Io/2, Tc=132℃	5	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	45	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

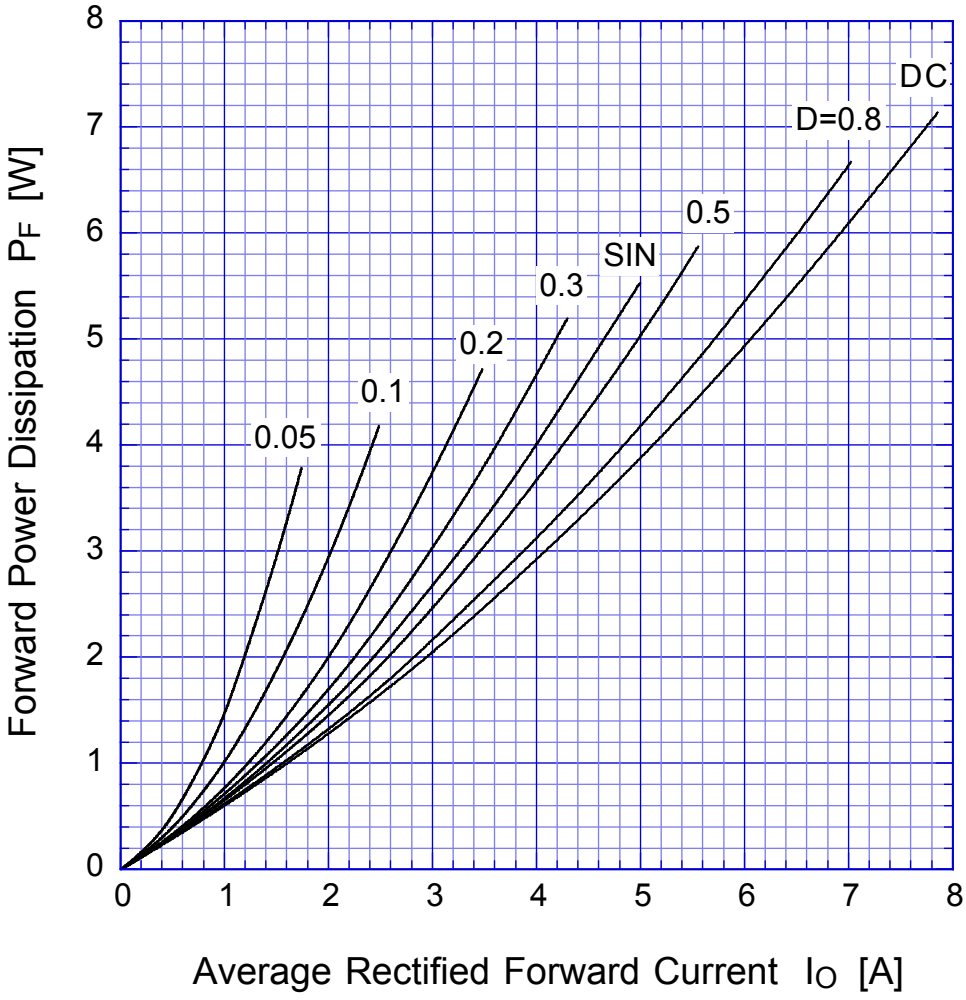
●Electrical Characteristics (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	I_F=2.5A, Pulse measurement, Rating of per diode	Max.0.98	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.35	ns
Thermal Resistance	θjc	junction to case	Max.3.3	℃/W

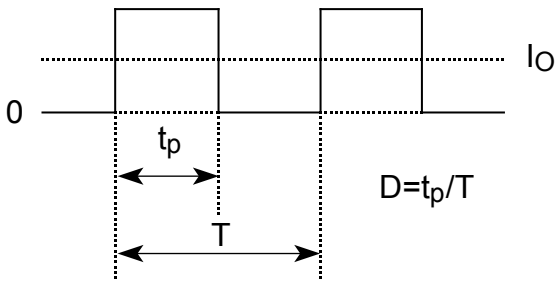
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D5LC20U
Forward Voltage
Forward Current IF [A]
10
1
0.1
0
0.4
0.8
1.2
1.6
Forward Voltage VF [V]
Tc=150°C [MAX]
Tc=150°C [TYP]
Tc=25°C [MAX]
Tc=25°C [TYP]
Pulse measurement per diode

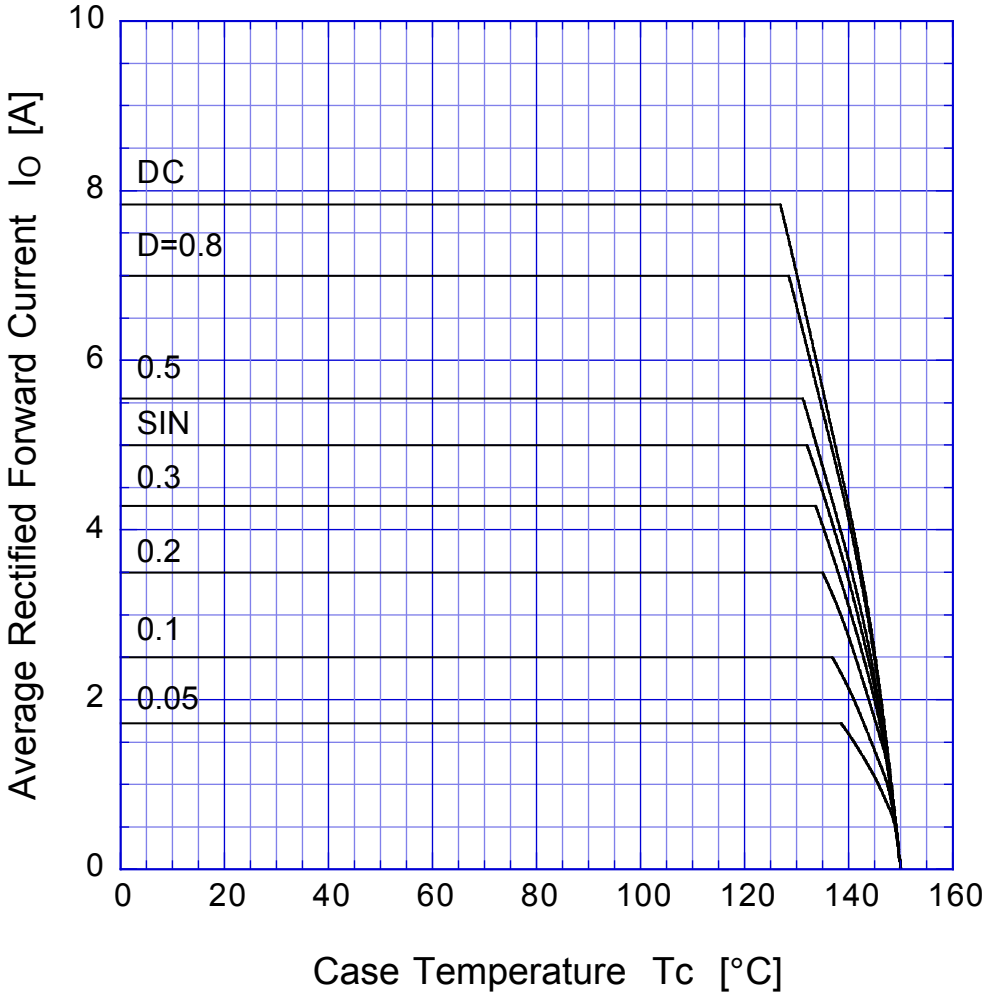
D5LC20U Forward Power Dissipation

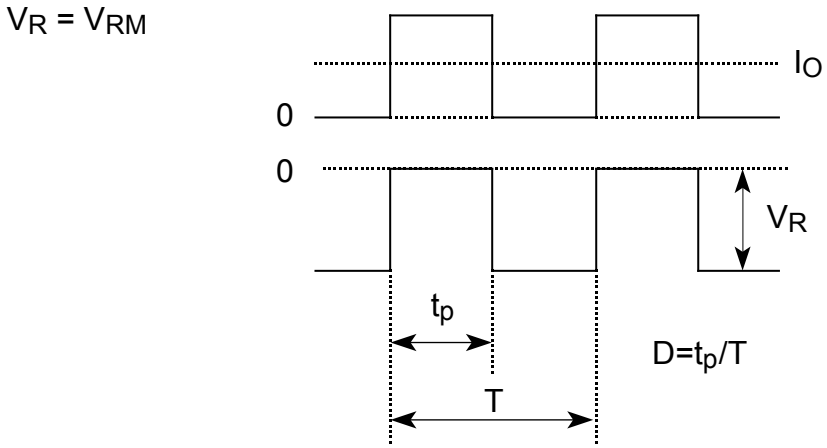


Tj = 150°C

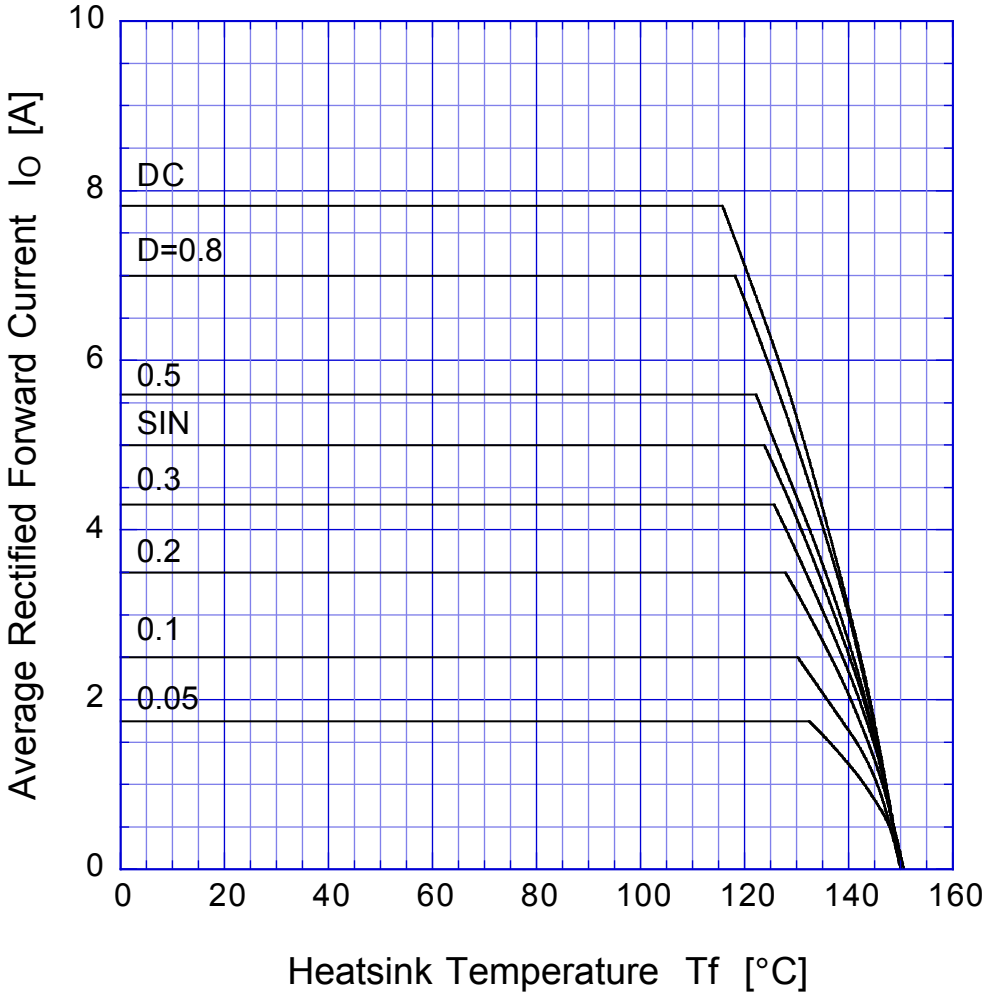


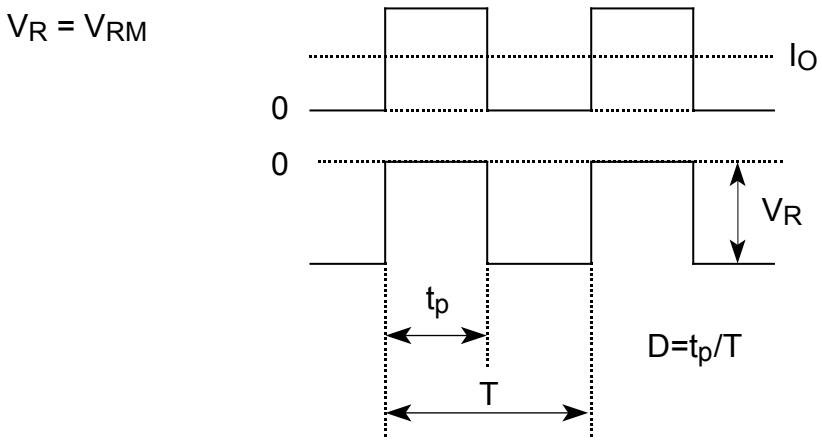
D5LC20U Derating Curve



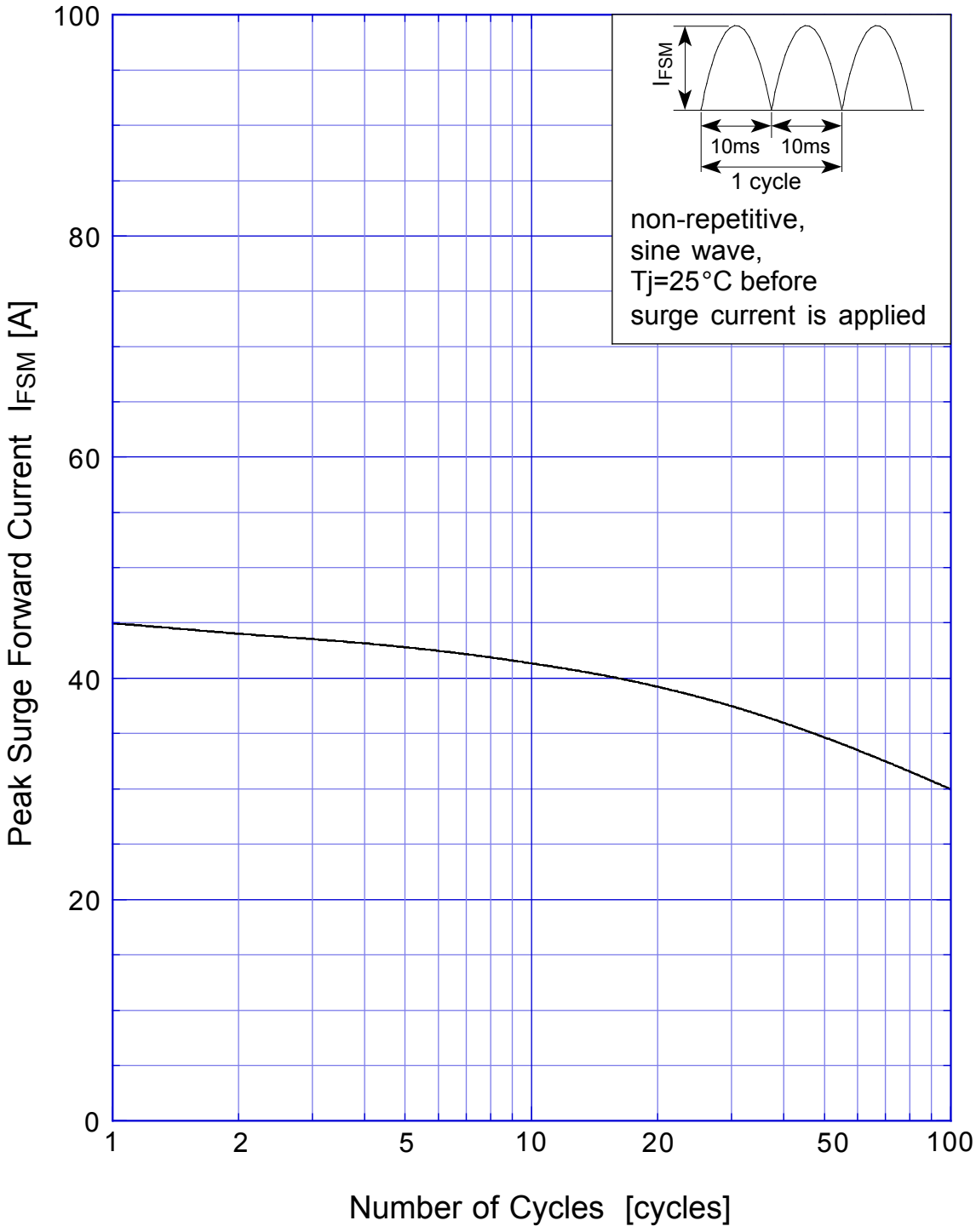


D5LC20U Derating Curve





D5LC20U Peak Surge Forward Capability



D5LC20U Junction Capacitance

