SHINDENGEN

Super Fast Recovery Rectifiers

Super Fast Bridges

D4SBL40

400V 4A

FEATURES

- Low noise
- SIL Package
- High IFSM

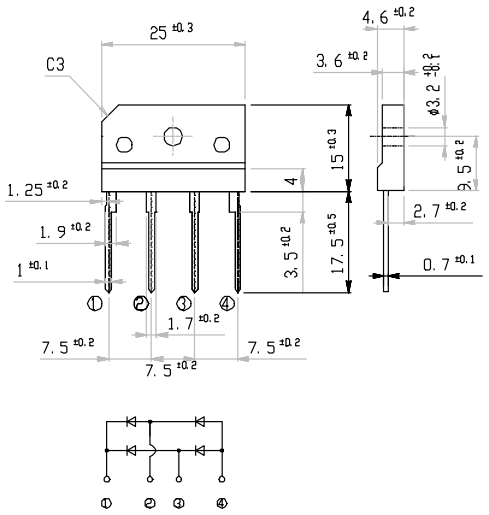
APPLICATION

- Switching power supply
- Home (Electrical) Appliances
- Office Equipment, Telecommunication, Factory Automation

OUTLINE DIMENSIONS

Case : 3S

(Unit : mm)



RATINGS

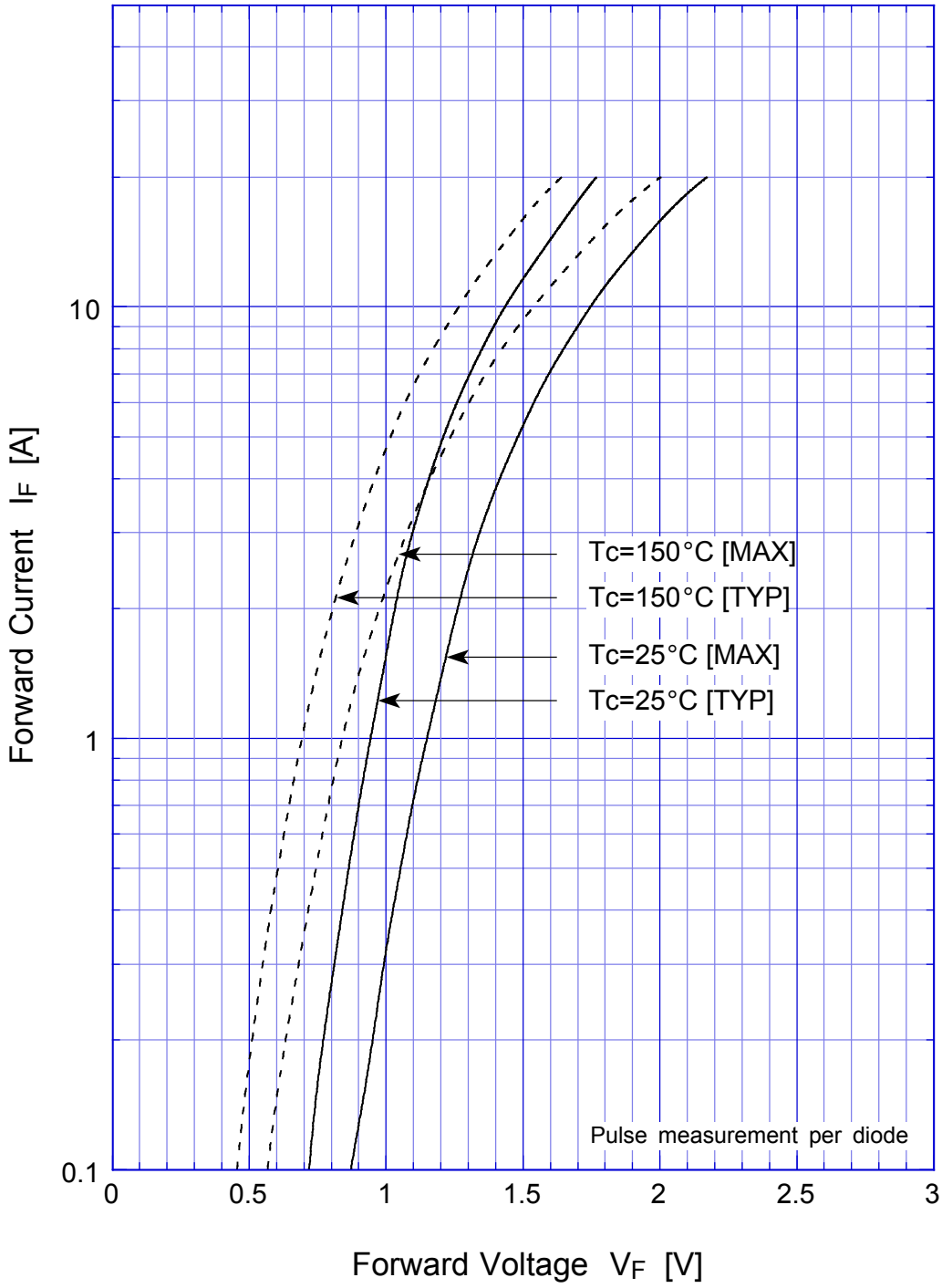
●Absolute Maximum Ratings (If not specified Tc=25°C)

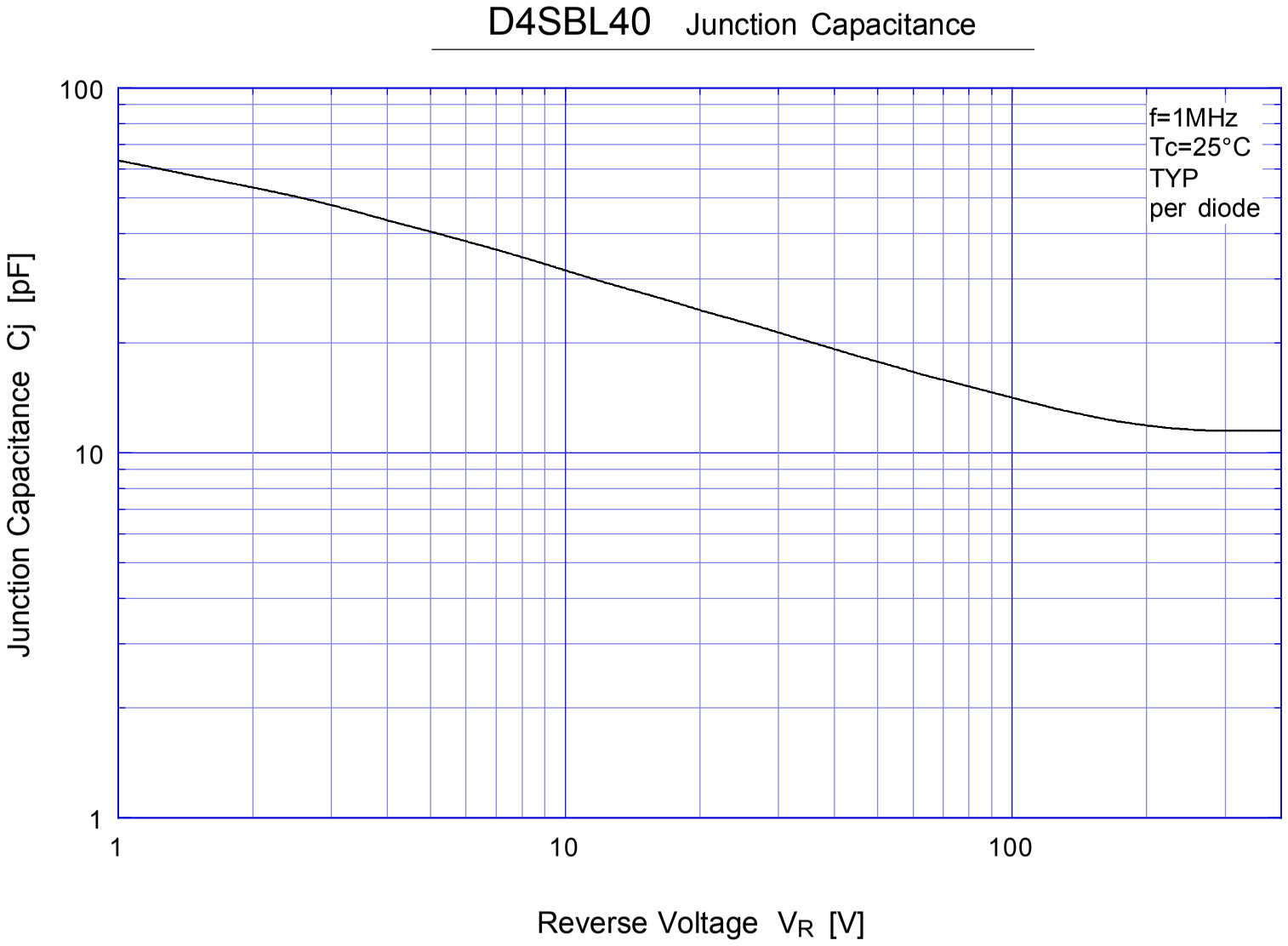
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55～150	°C
Operating Junction Temperature	Tj		150	°C
Maximum Reverse Voltage	V_{RM}		400	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=91°C	4	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	1.95	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 °C	50	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	Recommended torque 0.5N·m)	0.8	N·m

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

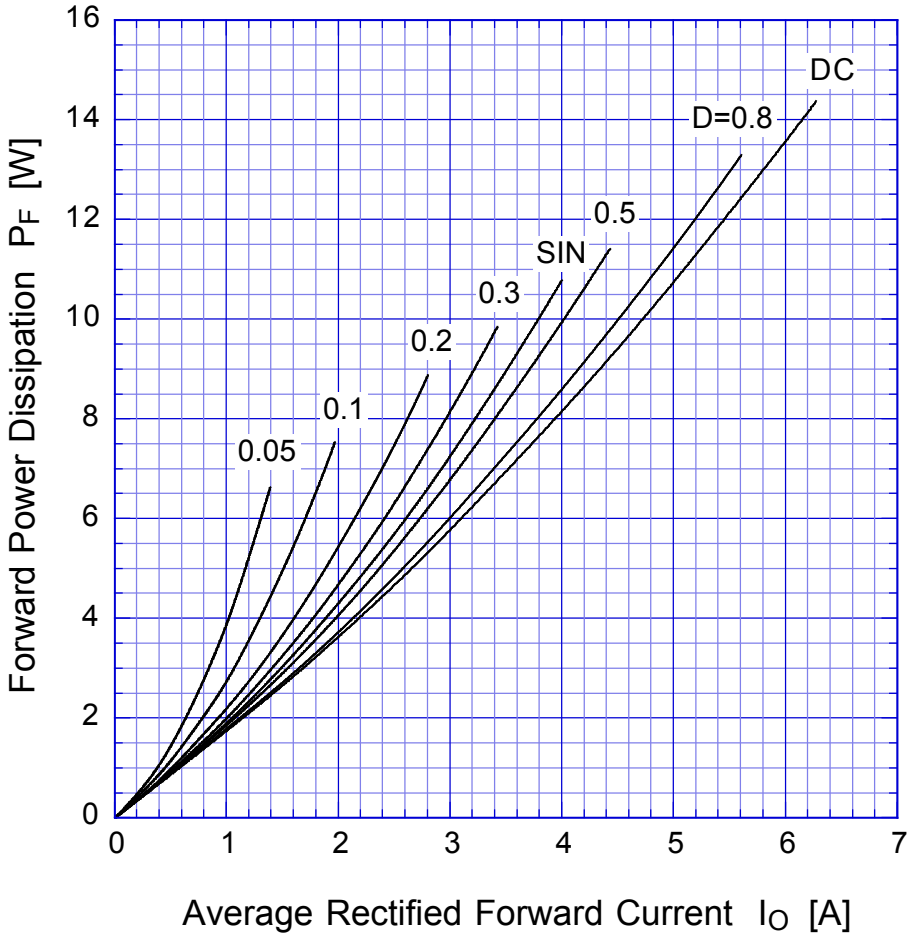
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=2.5A, Pulse measurement, Rating of per diode	Max.1.3	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	IF = 0.5A, IR = 1A	Max.50	ns
Thermal Resistance	θjc	junction to case With heatsink	Max.5.5	°C/W
	θjl	junction to lead Without heatsink	Max.6	
	θja	junction to ambient Without heatsink	Max.30	

D4SBL40 Forward Voltage

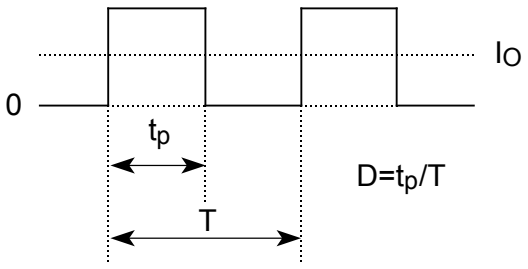




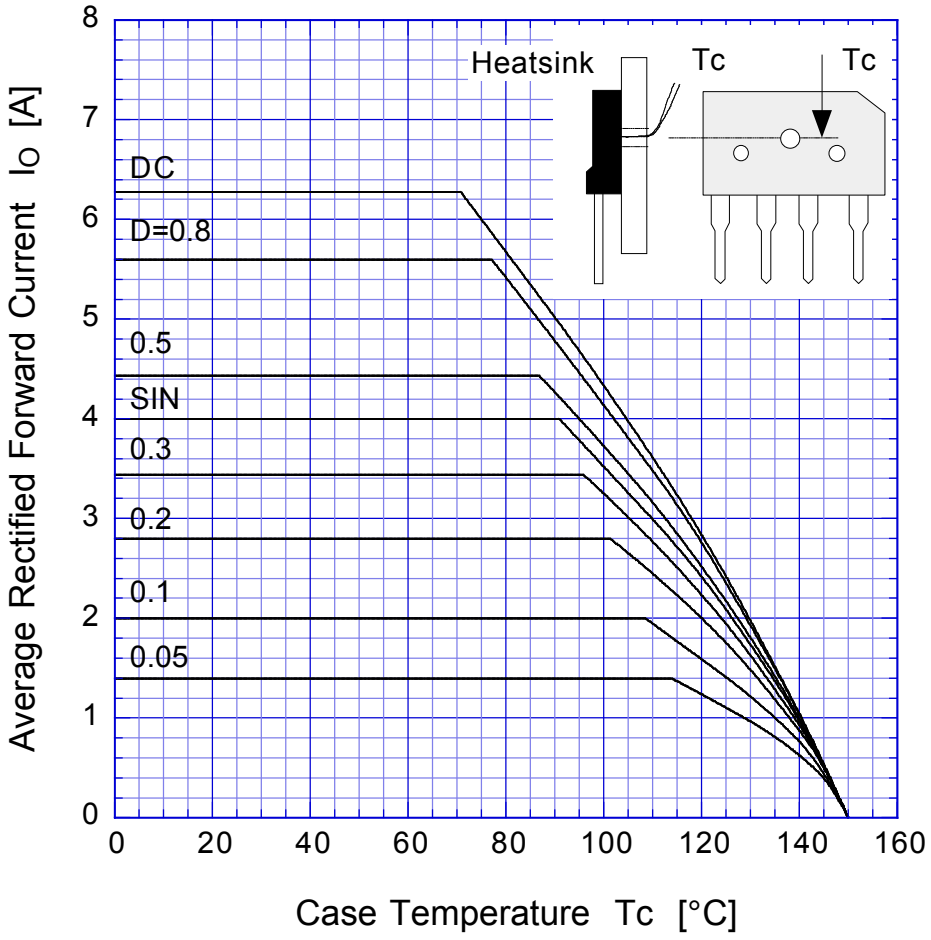
D4SBL40 Forward Power Dissipation

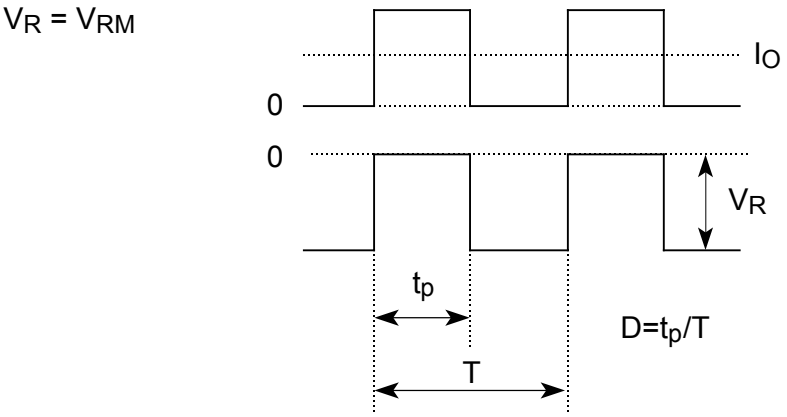


Tj = 150°C

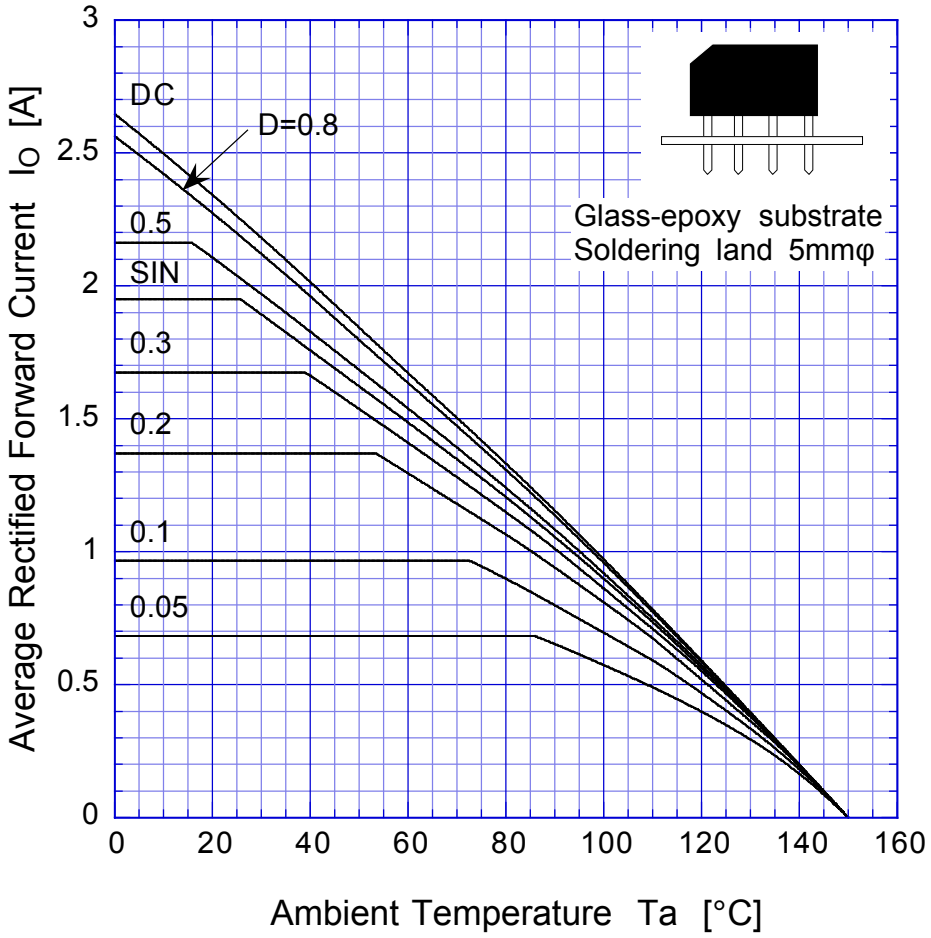


D4SBL40 Derating Curve

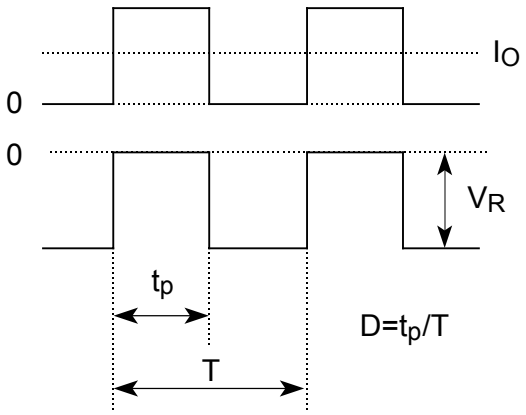




D4SBL40 Derating Curve



$V_R = V_{RM}$
Sine wave
R-load
Free in air



D4SBL40 Peak Surge Forward Capability