SHINDENGEN

Super Fast Recovery Rectifiers

Super Fast Bridges

D4SBL20U

200V 4A

FEATURES

- Low noise
- SIL Package
- High IFSM

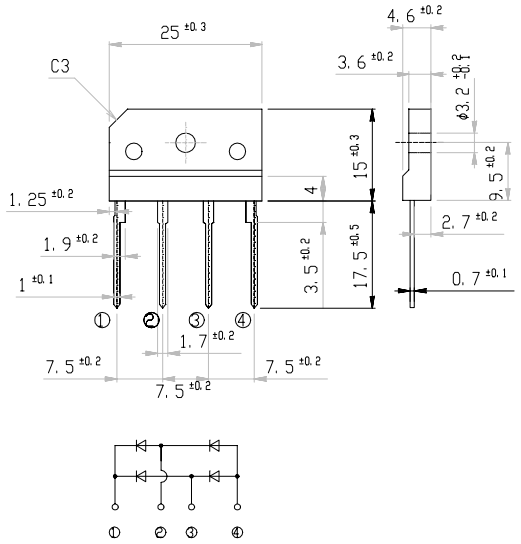
APPLICATION

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

OUTLINE DIMENSIONS

Case : 3S

(Unit : mm)



RATINGS

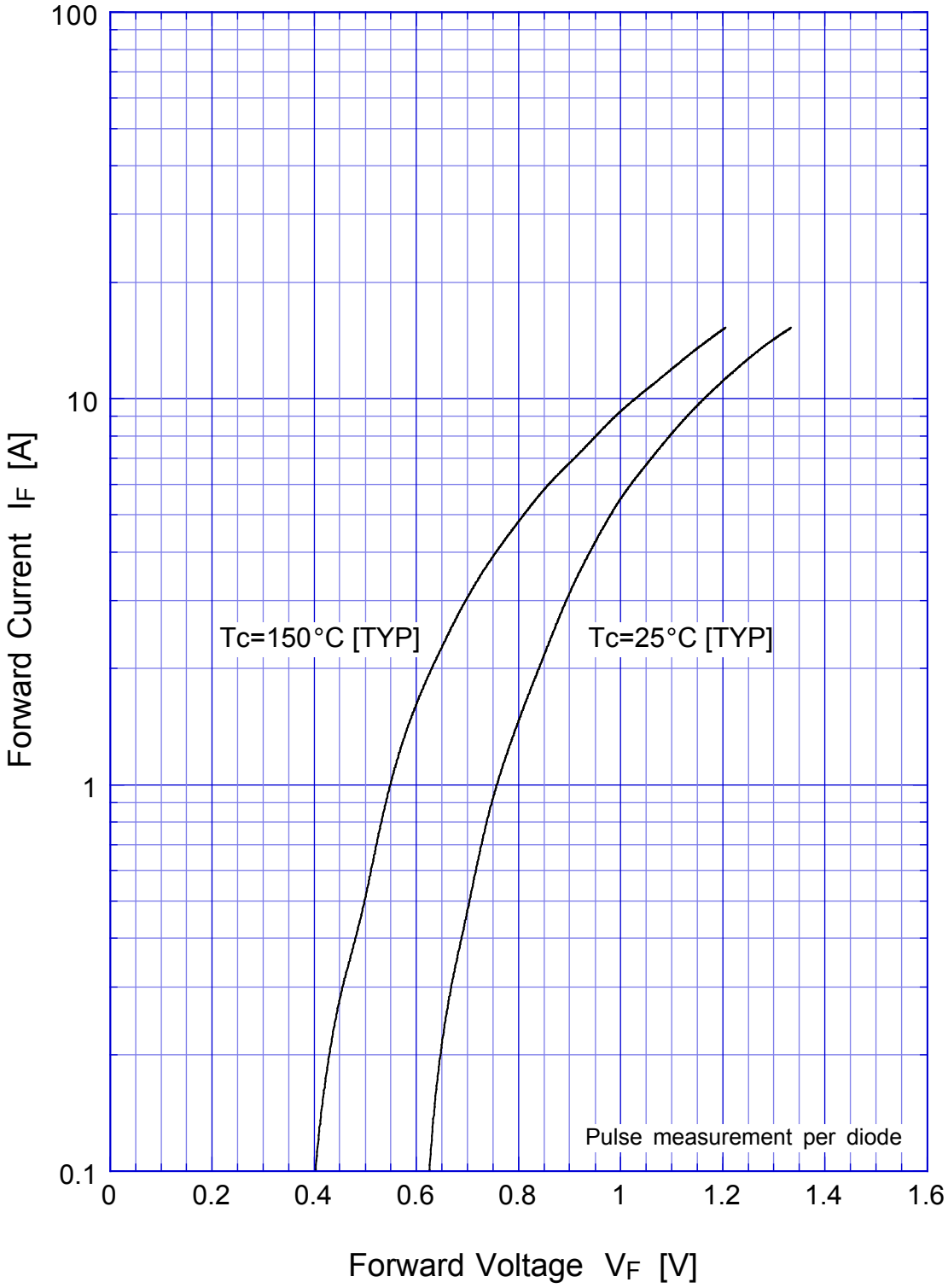
●Absolute Maximum Ratings (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		−55～150	℃
Operating Junction Temperature	Tj		150	℃
Maximum Reverse Voltage	V_{RM}		200	V
Average Rectified Forward Current	I_O	50Hz sine wave, R-load With heatsink Tc=108℃	4	A
		50Hz sine wave, R-load Without heatsink Ta=25℃	2.5	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25 ℃	60	A
Dielectric Strength	Vdis	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque:0.5N・m)	0.8	N・m

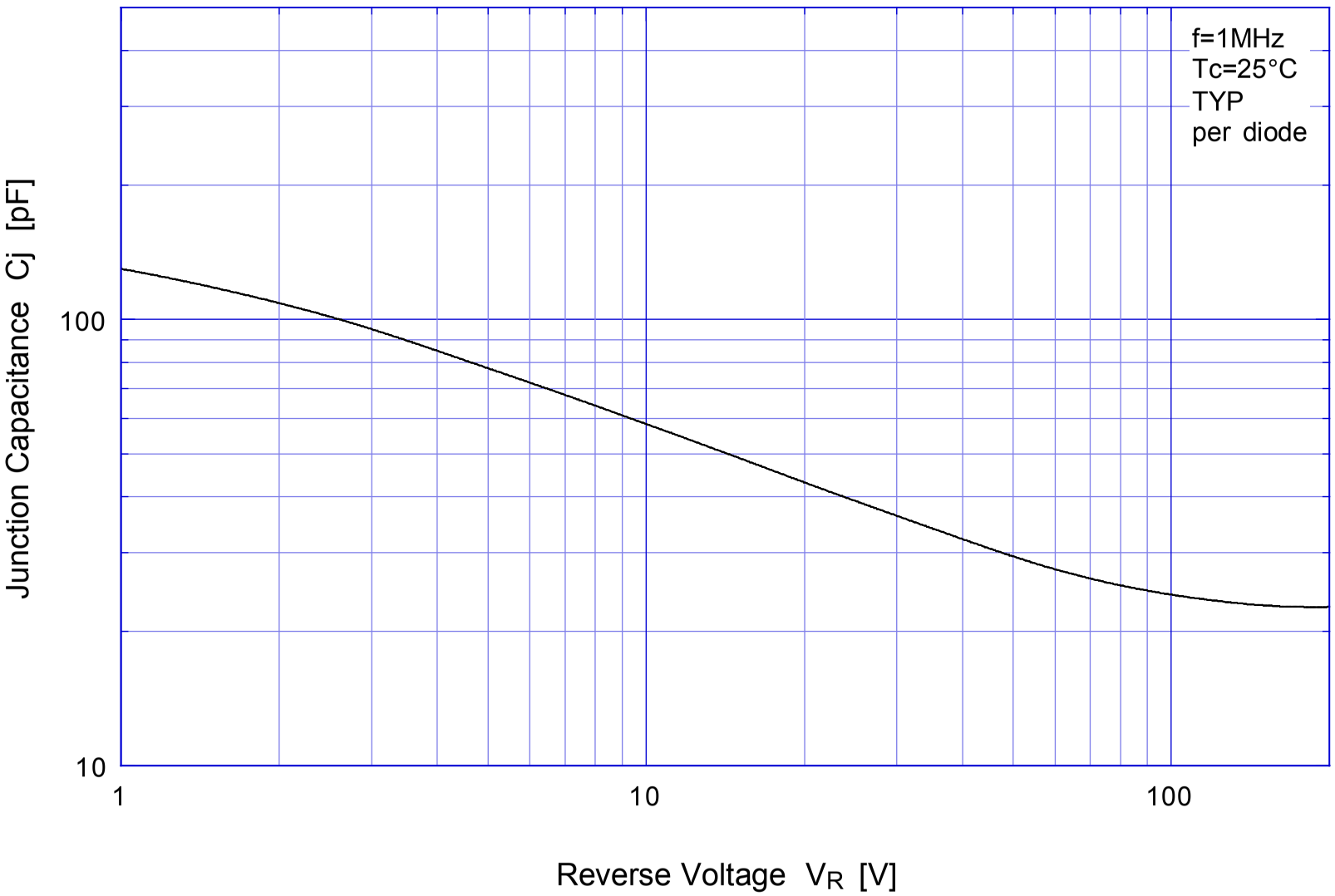
●Electrical Characteristics (If not specified Tc=25℃)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	IF=2A, 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	IF = 0.5A, IR = 1A	Max.35	ns
Thermal Resistance	θjc	junction to case With heatsink	Max.5.5	℃/W
	θjl	junction to lead Without heatsink	Max.6	
	θja	junction to ambient Without heatsink	Max.30	

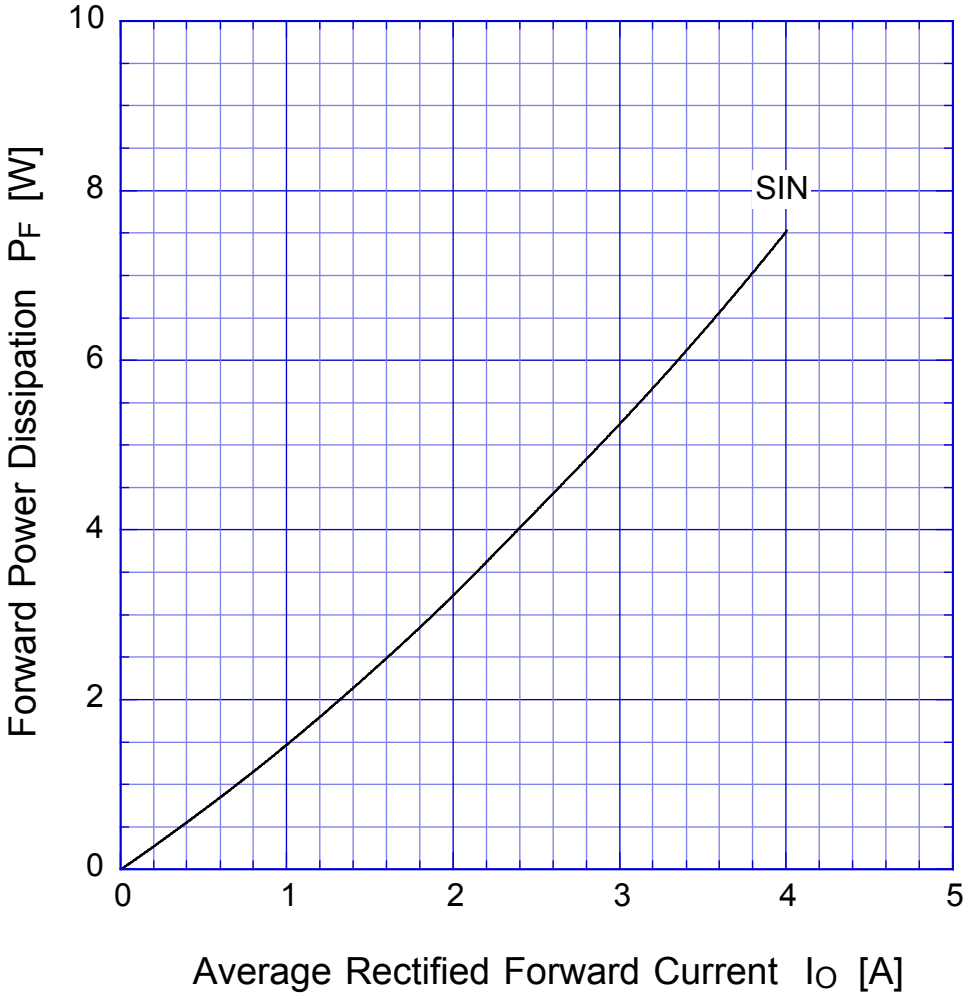
D4SBL20U Forward Voltage



D4SBL20U Junction Capacitance

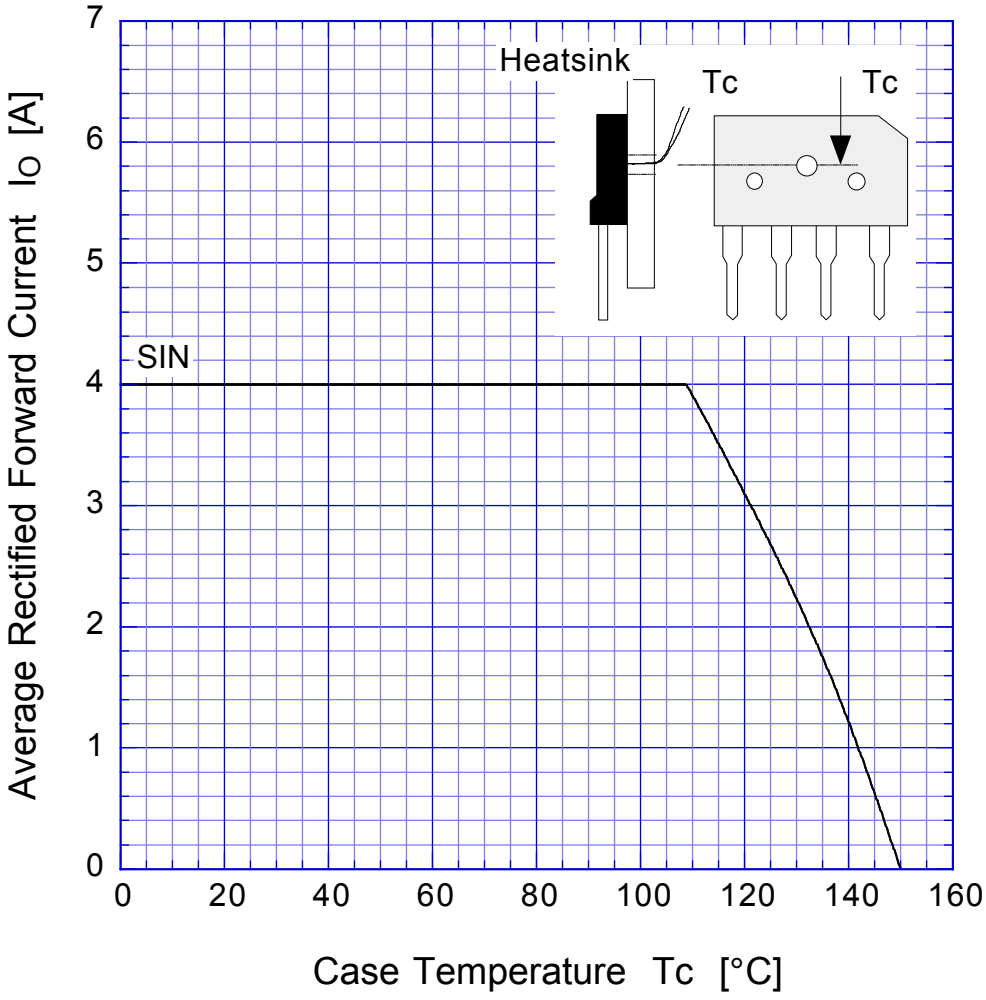


D4SBL20U Forward Power Dissipation



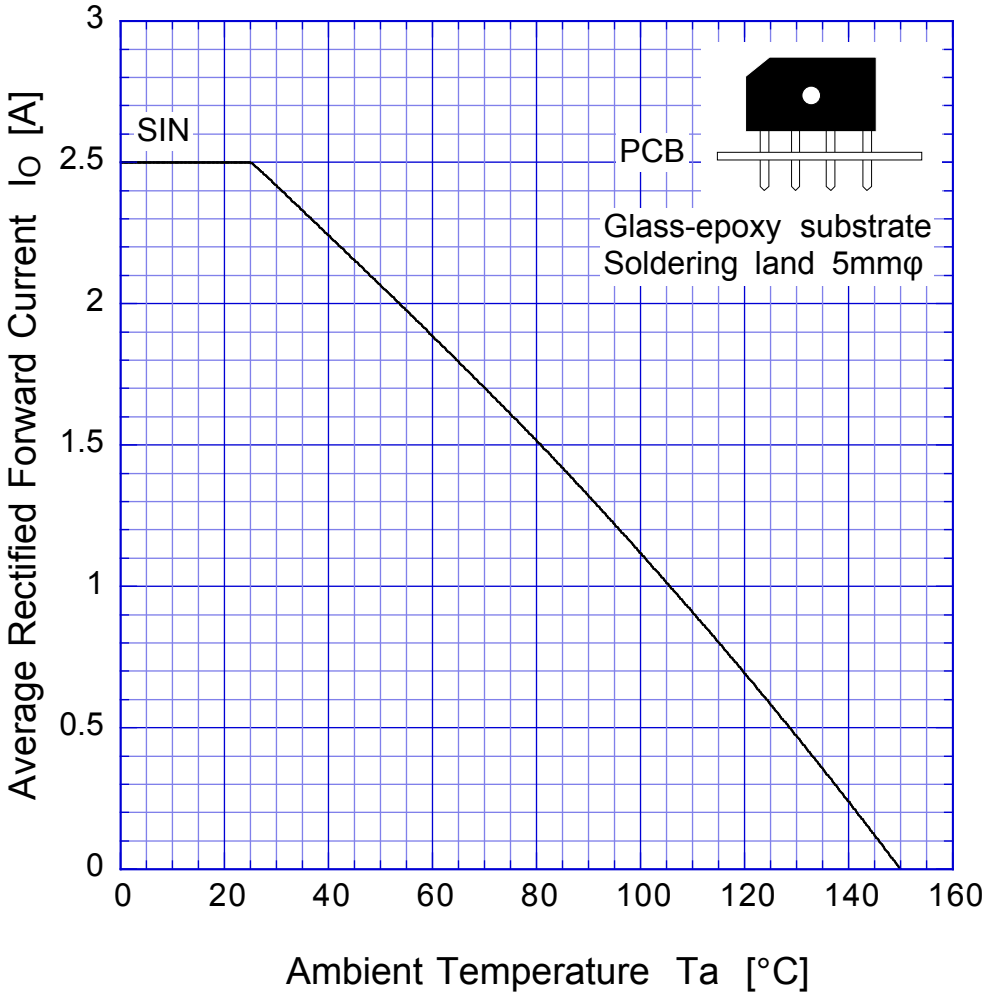
Tj = Tjmax

D4SBL20U Derating Curve



Sine wave
R-load
with heatsink

D4SBL20U Derating Curve



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

D4SBL20U Peak Surge Forward Capability