

SHINDENGEN

Super Fast Recovery Rectifiers

Super Fast Bridges

D4SBL20U

200V 4A

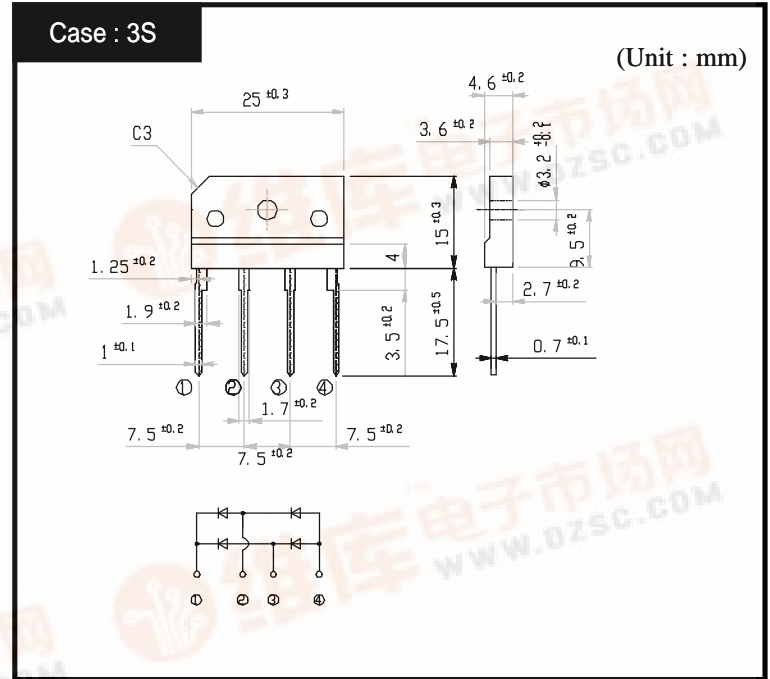
FEATURES

- Low noise
- SIL Package
- High IFSM

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tc=25)

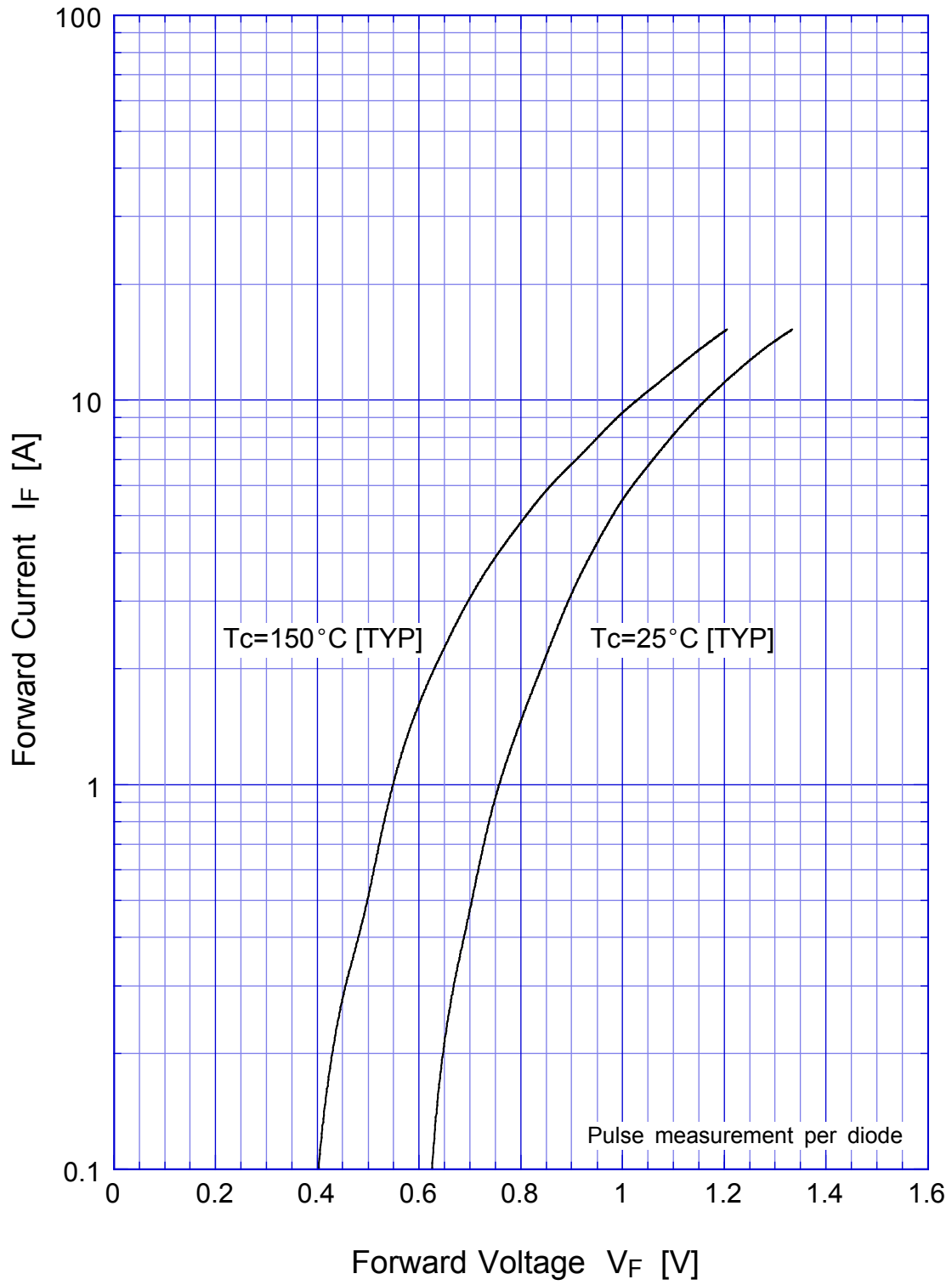
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=108	4	A
		50Hz sine wave, R-load Without heatsink Ta=25	2.5	
Peak Surge 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)

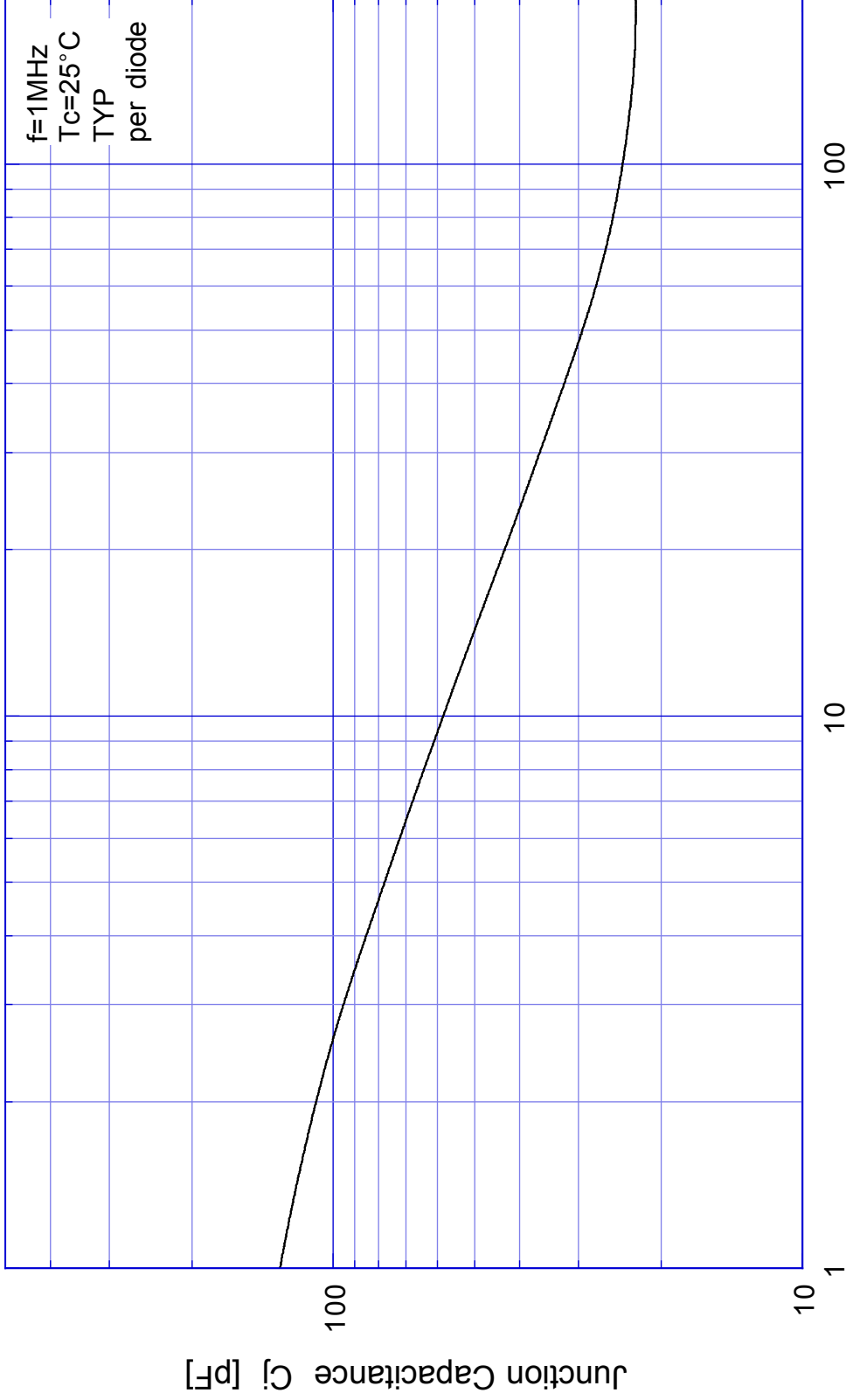
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2A, Pulse measurement, Rating of per diode	Max.0.98	V
Reverse Current	I _R	V _R =V _{RM} , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	I _F = 0.5A, I _R = 1A	Max.35	ns
Thermal Resistance	j-c	junction to case With heatsink	Max.5.5	/W
	j-l	junction to lead Without heatsink	Max.6	
	j-a	junction to ambient Without heatsink	Max.30	



D4SBL20U Forward Voltage

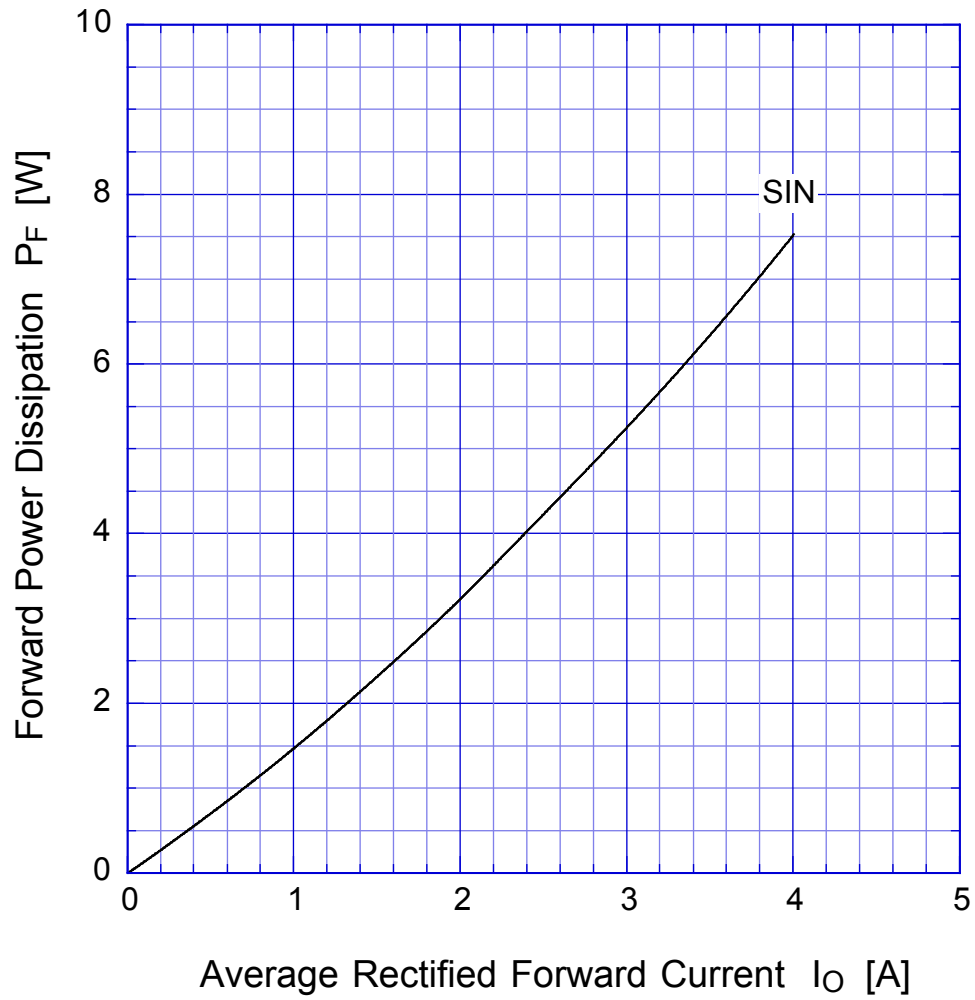


D4SBL20U Junction Capacitance



Reverse Voltage V_R [V]

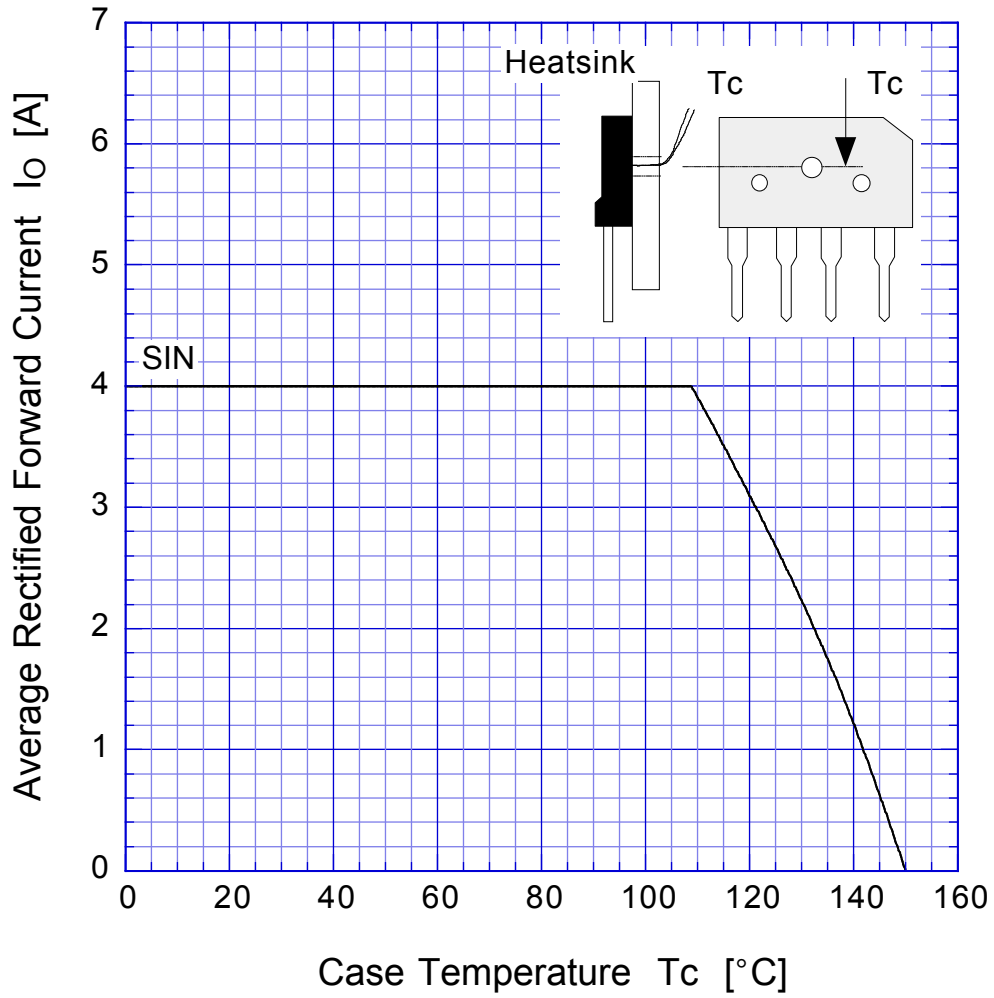
D4SBL20U Forward Power Dissipation



$T_j = T_{jmax}$

D4SBL20U

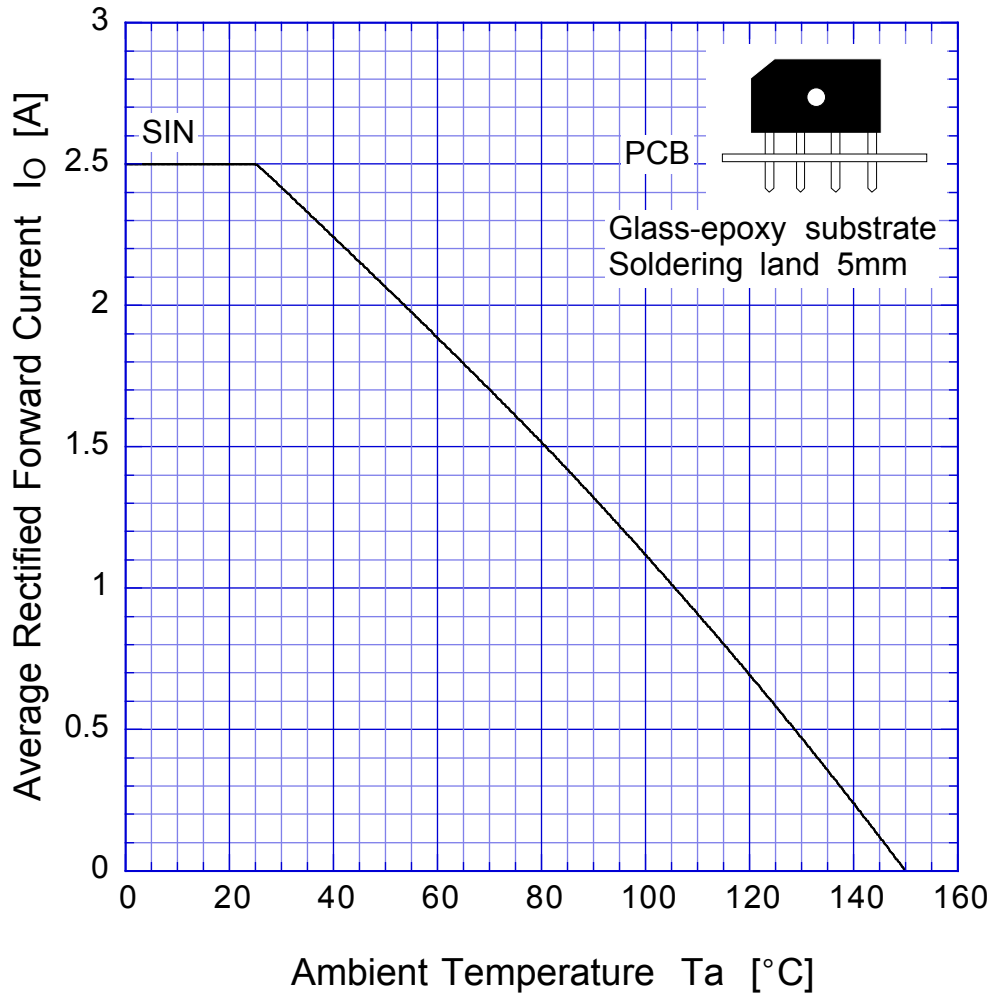
Derating Curve



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

