

SHINDENGEN

Super Fast Recovery Rectifiers

Super Fast Bridges

D4SBL20U

200V 4A

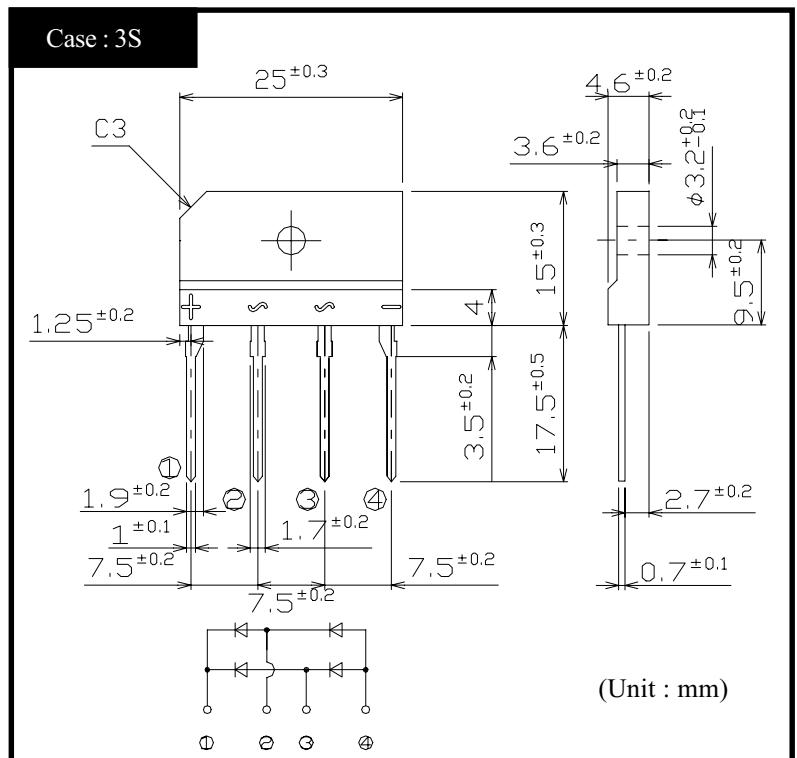
FEATURES

- Low noise
- SIL Package
- High IFSM

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

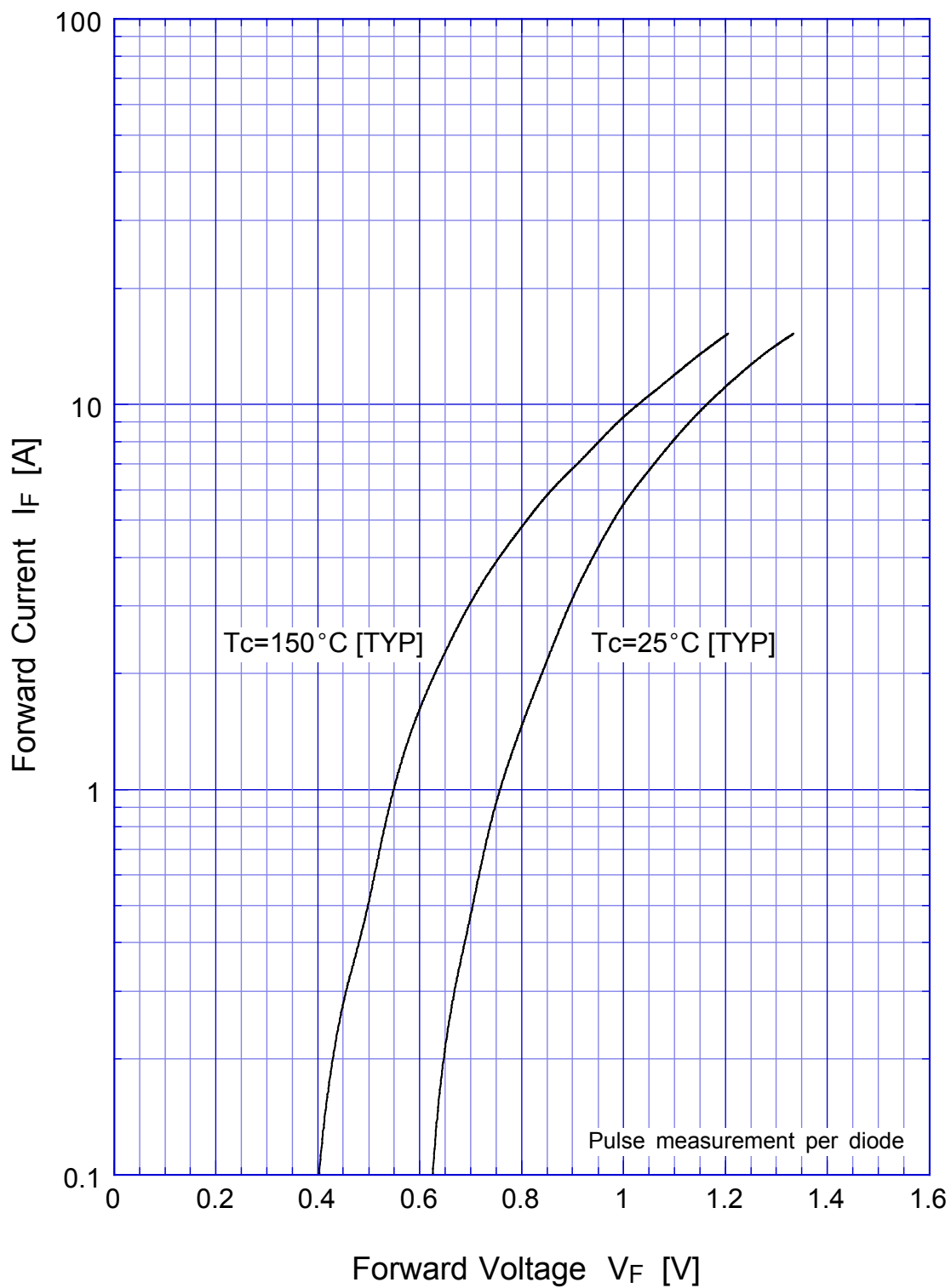
● Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Operating Junction Temperature	T _j		150	°C
Maximum Reverse Voltage	V _{RM}		200	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load With heatsink Tc=108°C	4	A
		50Hz sine wave, R-load Without heatsink Ta=25°C	2.5	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25°C	80	A
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

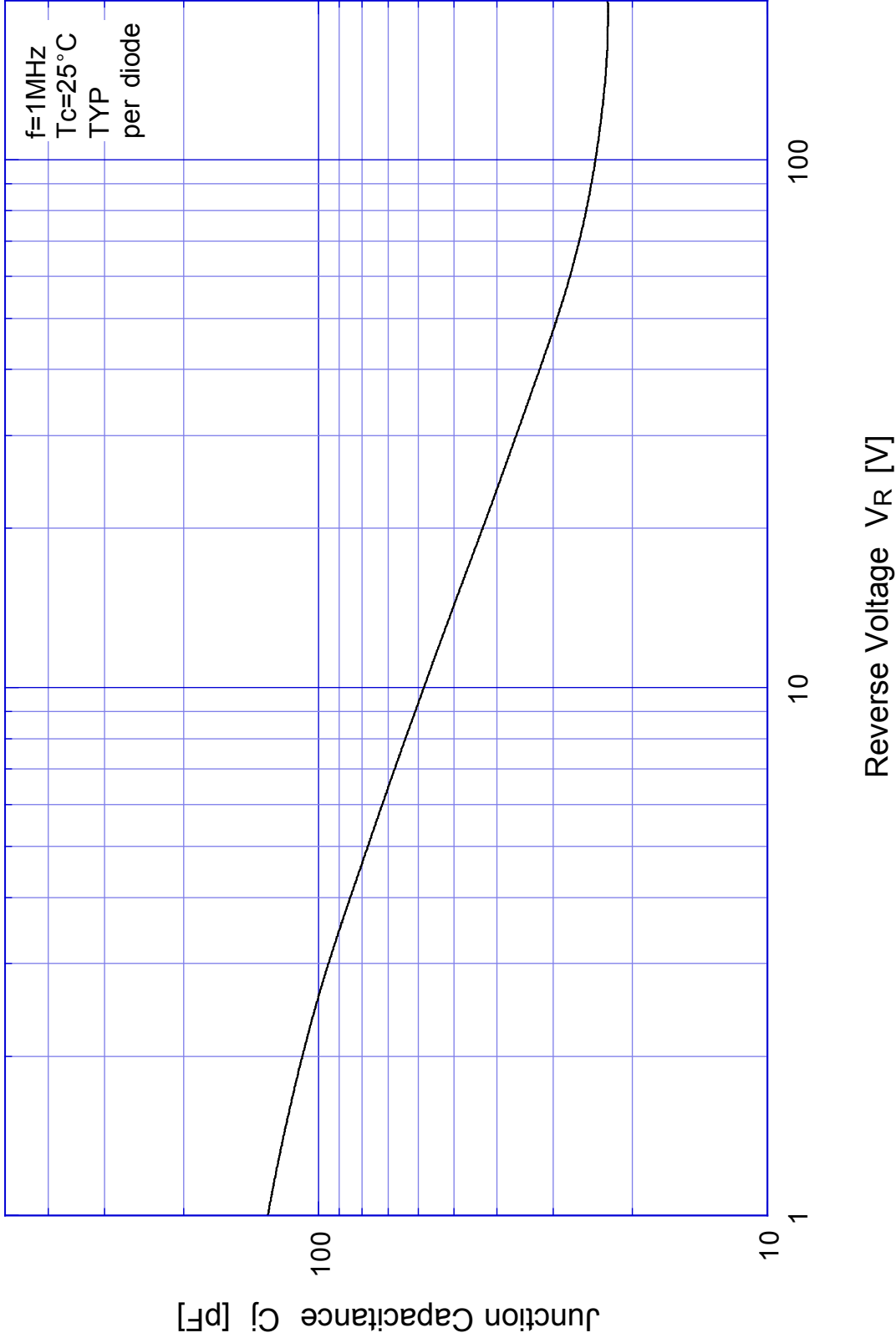
● Electrical Characteristics (If not specified Tc=25°C)

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 Rating of per diode	Max 35	ns
Thermal Resistance	θ _{jc}	junction to case With heatsink	Max 5.5	°C/W
	θ _{jl}	junction to lead Without heatsink	Max 6	
	θ _{ja}	junction to ambient Without heatsink	Max 30	

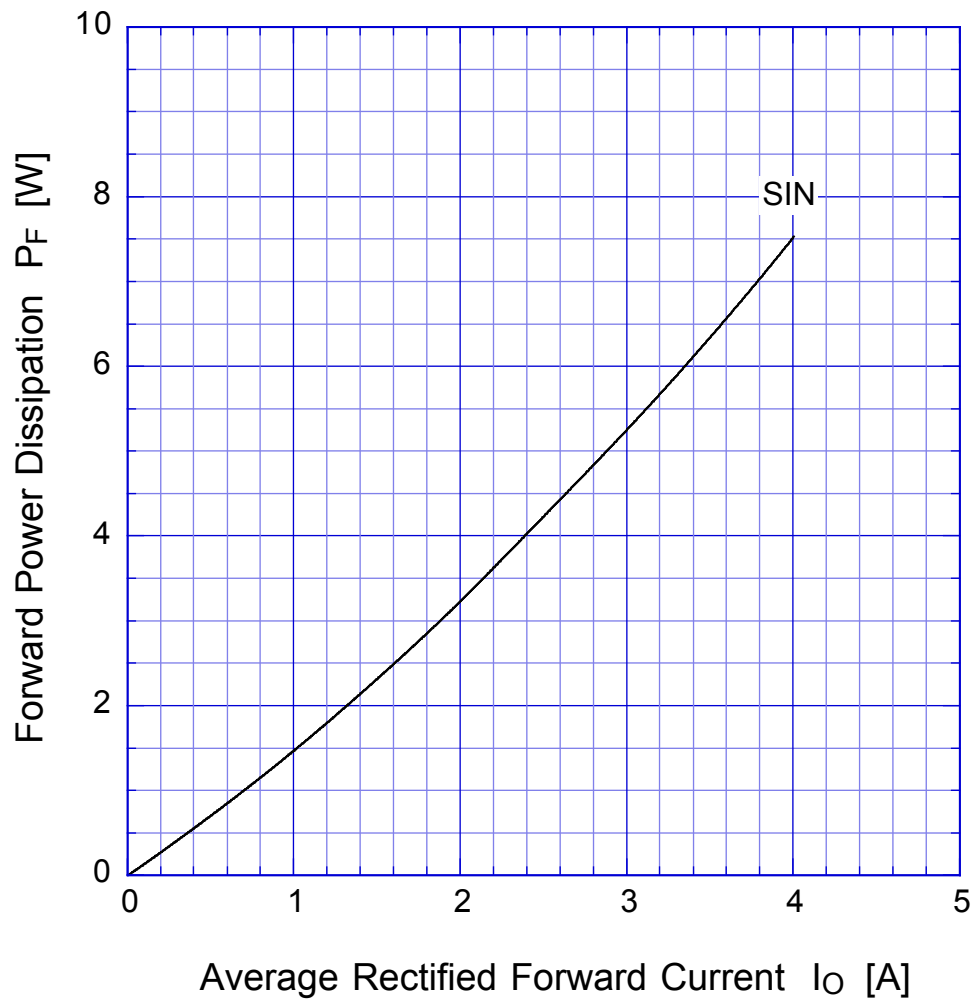
D4SBL20U Forward Voltage



D4SBL20U Junction Capacitance



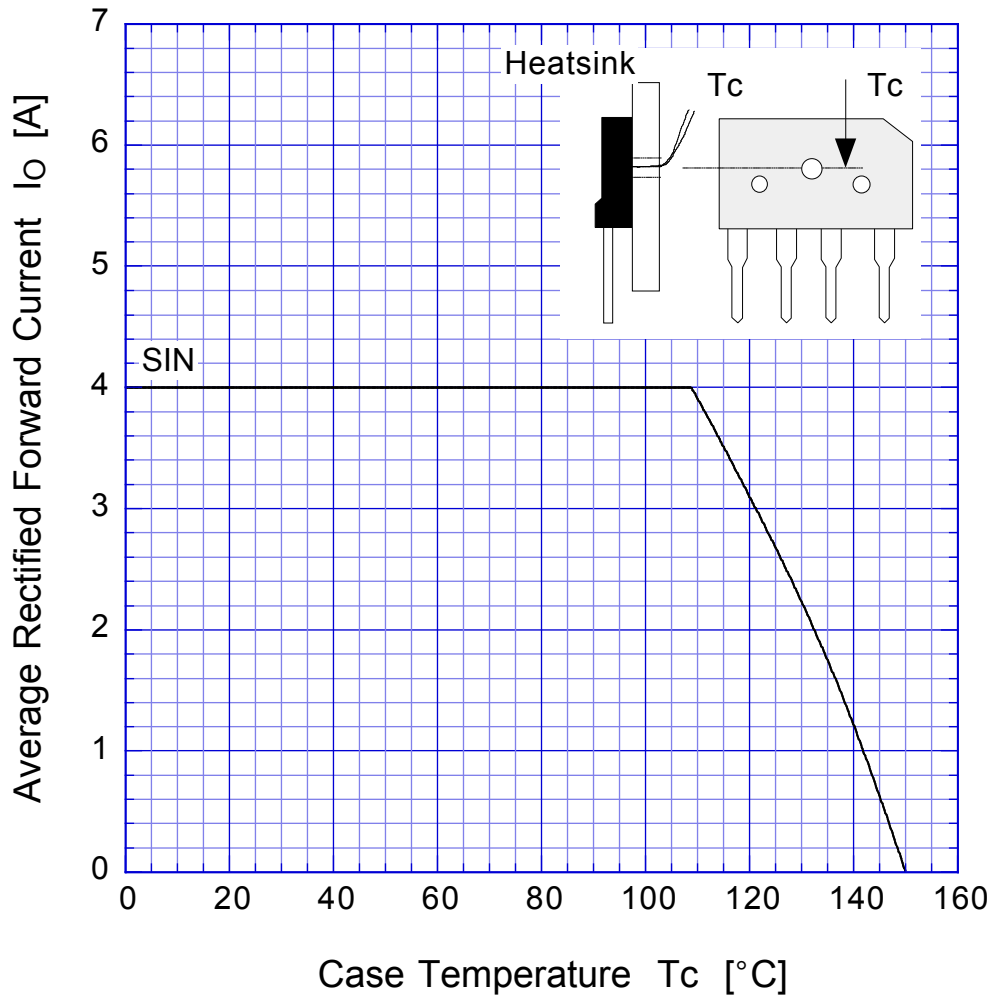
D4SBL20U Forward Power Dissipation



$T_j = T_{jmax}$

D4SBL20U

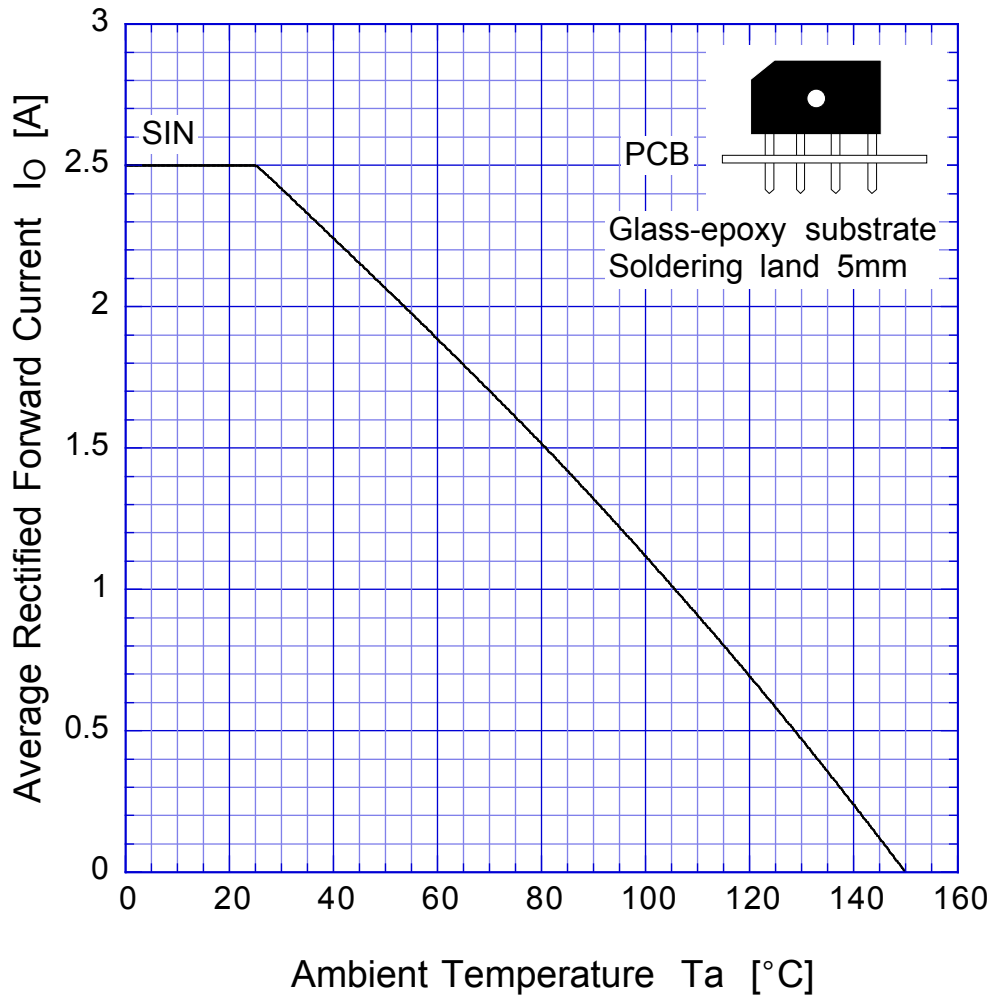
Derating Curve



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

