

# SHINDENGEN

## Super Fast Recovery Rectifiers

## Super Fast Bridges

# D4SBL20U

## 200V 4A

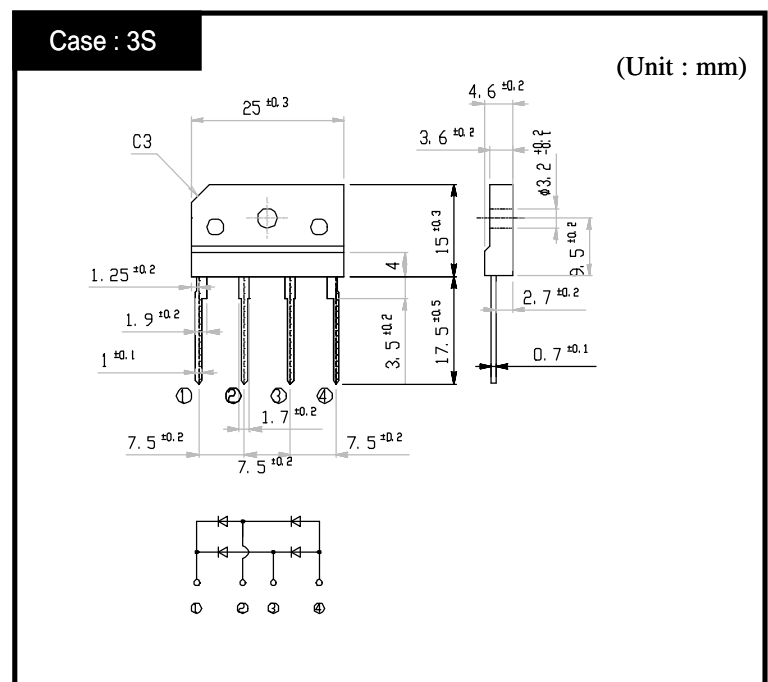
### FEATURES

Low noise  
SIL Package  
High IFSM

### APPLICATION

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

### OUTLINE DIMENSIONS



### RATINGS

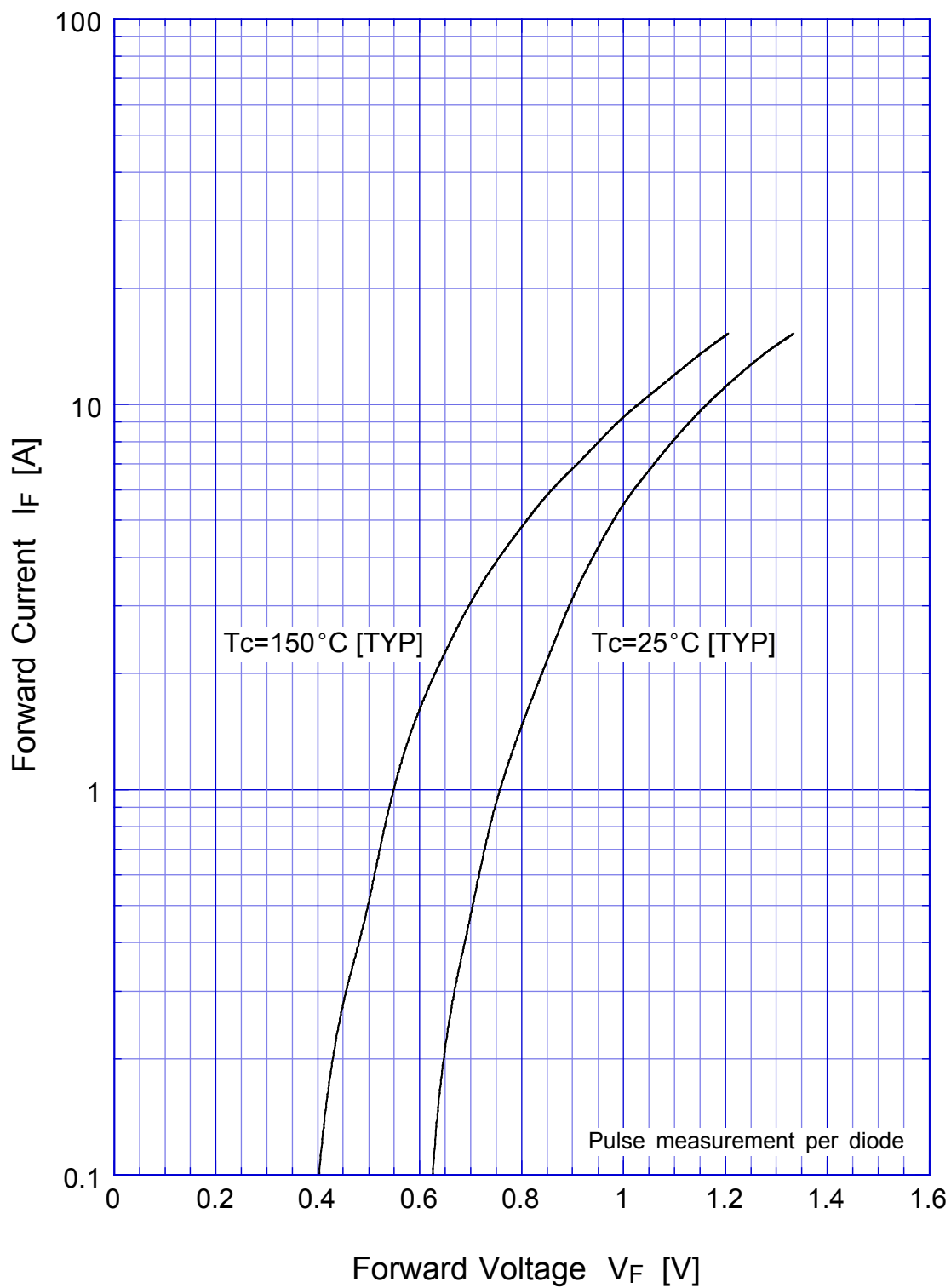
Absolute Maximum Ratings (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T <sub>stg</sub>		-55 ~ 150	
Operating Junction Temperature	T <sub>j</sub>		150	
Maximum Reverse Voltage	V <sub>RM</sub>		200	V
Average Rectified Forward Current	I <sub>O</sub>	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 <sub>FSM</sub>	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	60	A
Dielectric Strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque 0.5N·m )	0.8	N·m

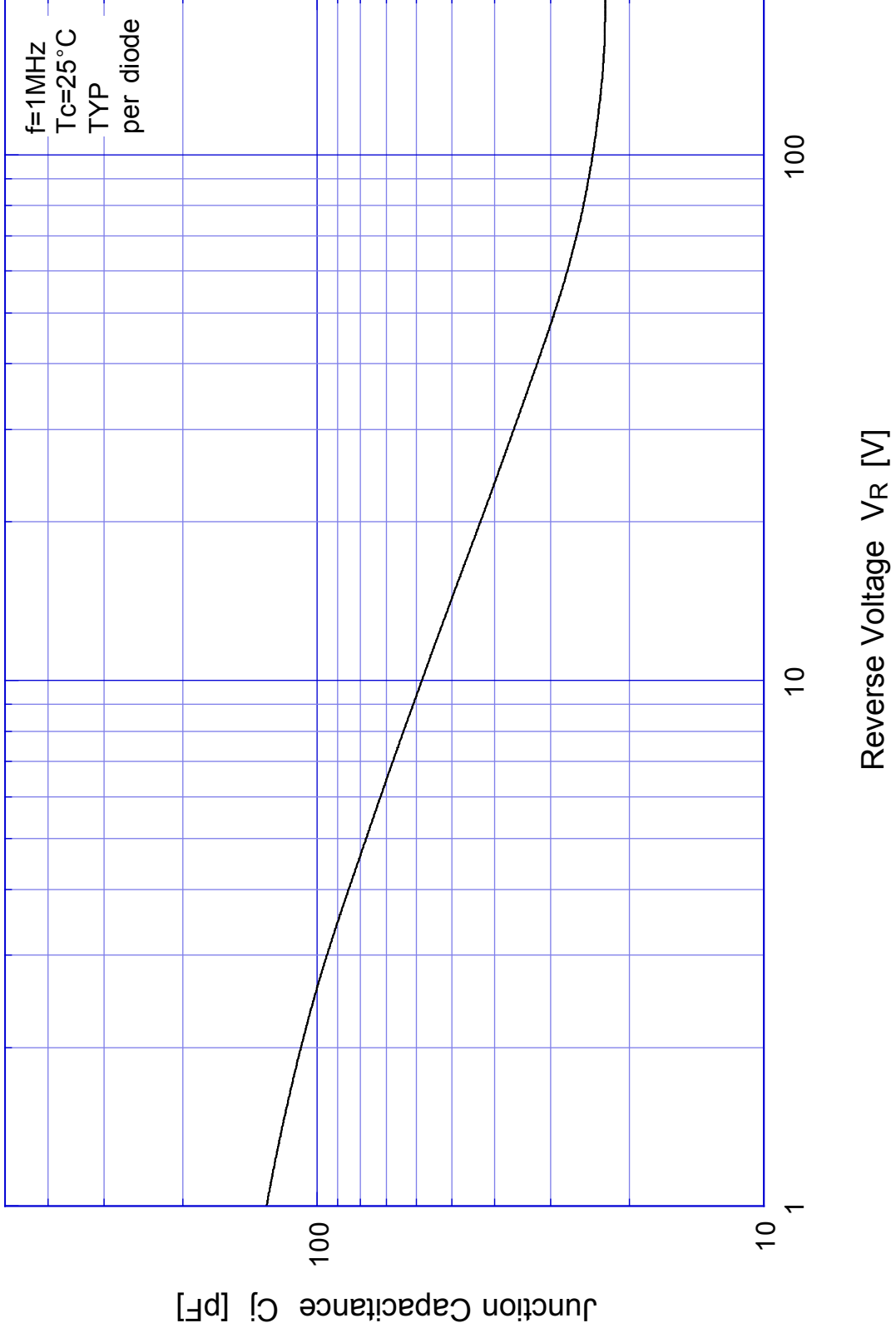
Electrical Characteristics (If not specified Tc=25 )

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =2A, Pulse measurement, Rating of per diode	Max.0.98	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RM</sub> , Pulse measurement, Rating of per diode	Max.10	μA
Reverse Recovery Time	trr	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 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	

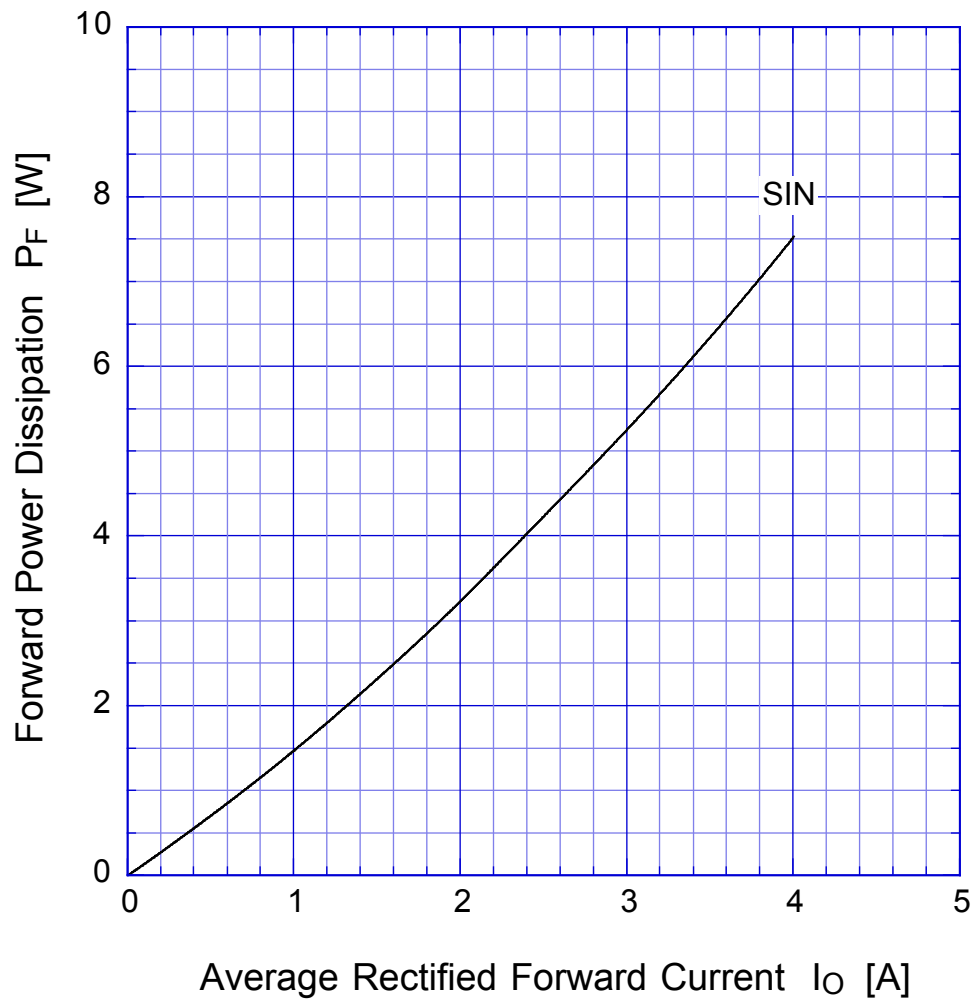
# D4SBL20U Forward Voltage



# D4SBL20U Junction Capacitance



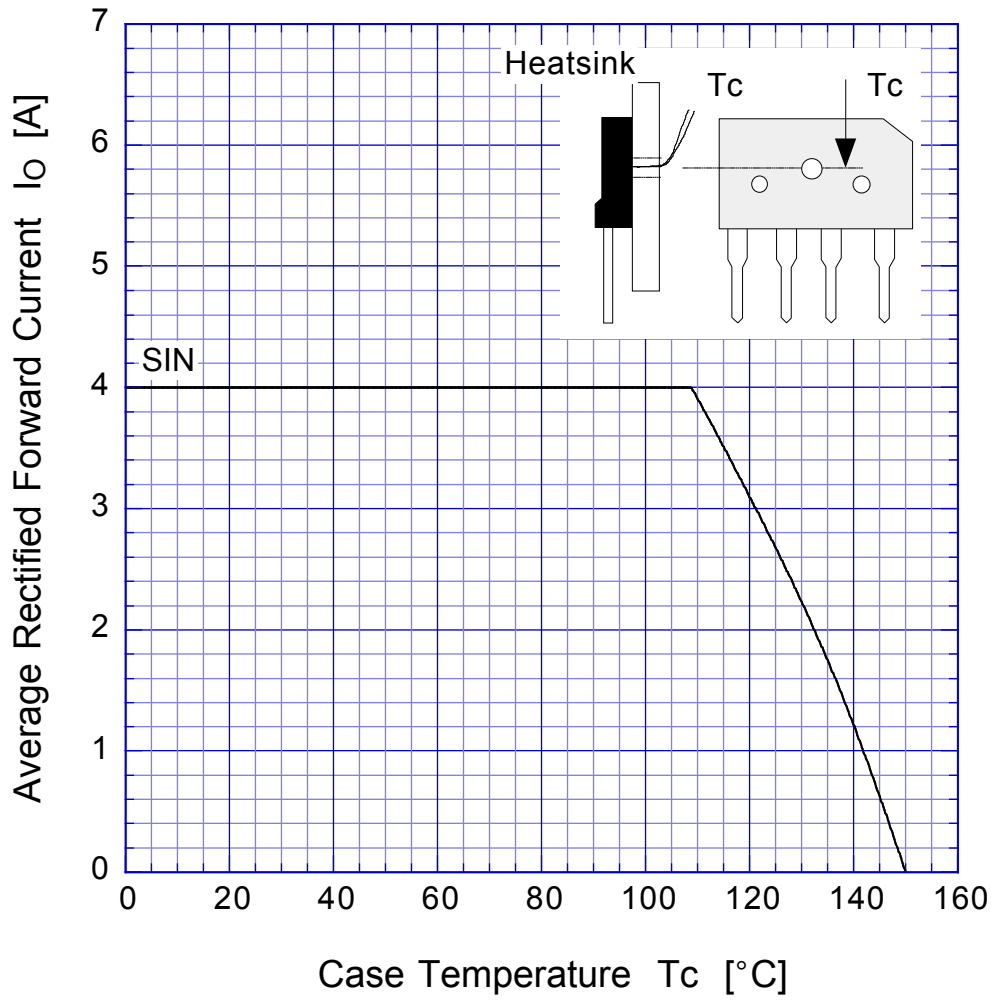
## D4SBL20U Forward Power Dissipation



$T_j = T_{jmax}$

# D4SBL20U

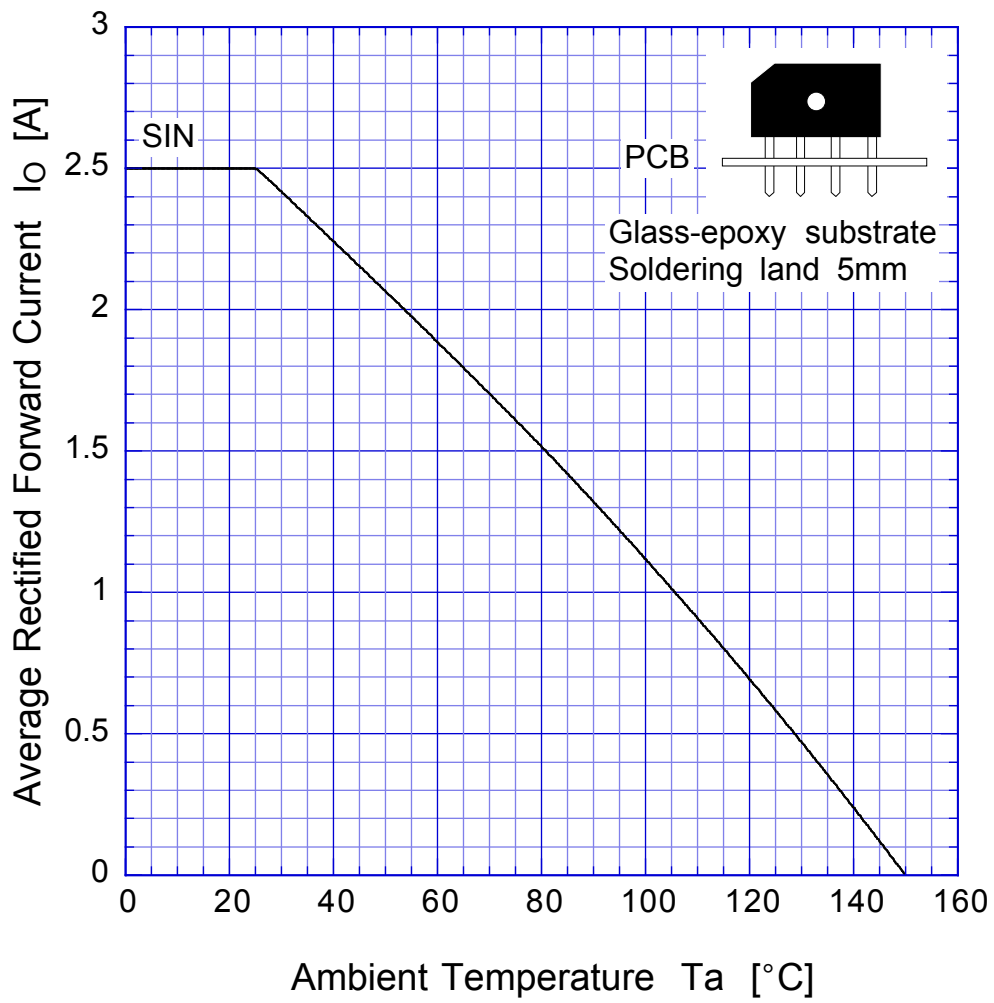
## Derating Curve



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

