

# D20XB80

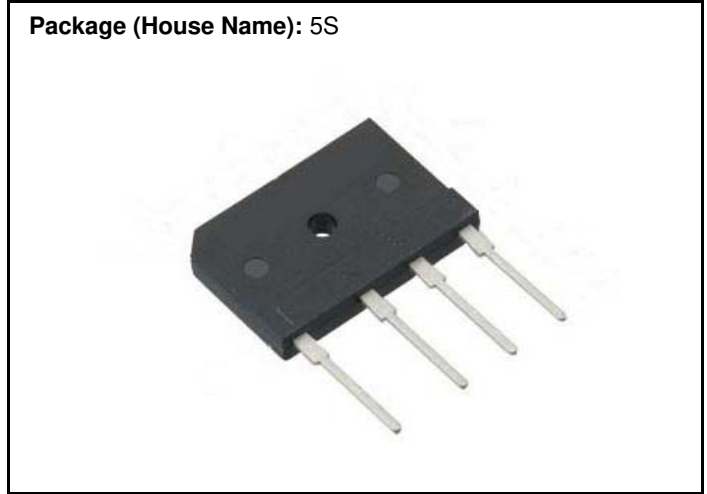
Bridge Diodes  
800V, 20A

**Feature**

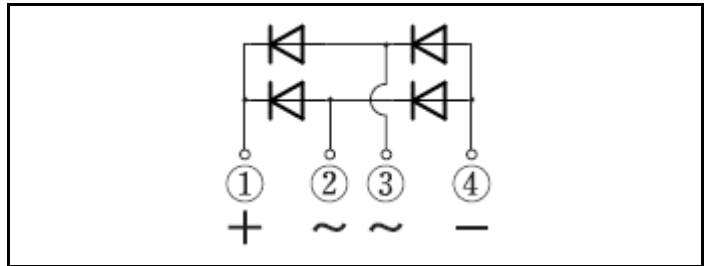
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

**OUTLINE**

Package (House Name): 5S



**Equivalent circuit**



**Absolute Maximum Ratings** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-40 to 150	°C
Junction temperature	Tj		-40 to 150	°C
Repetitive peak reverse voltage	VRRM		800	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=87°C	20	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	3.5	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	240	A
Current squared time	I <sup>2</sup> t	1ms ≤ tp < 10ms, Tj=25°C	200	A <sup>2</sup> s
Dielectric strength	Vdis	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

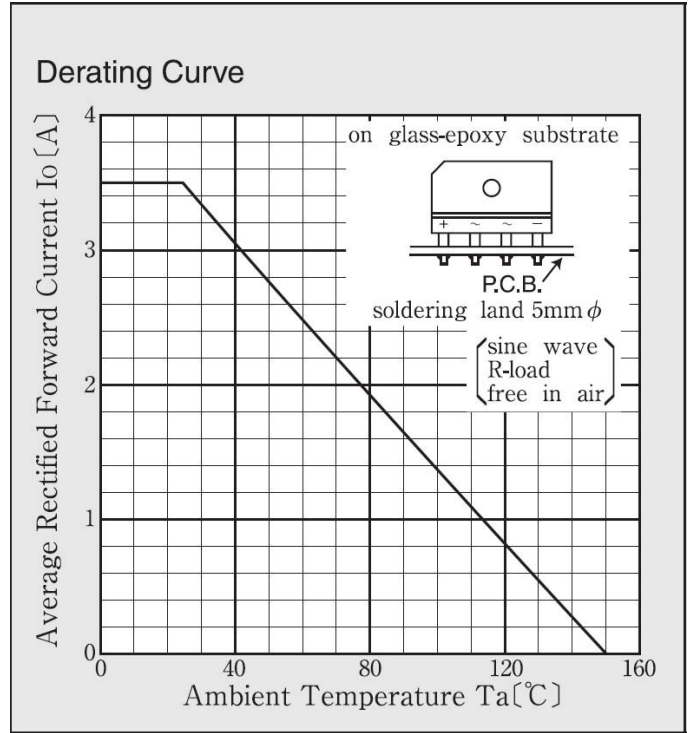
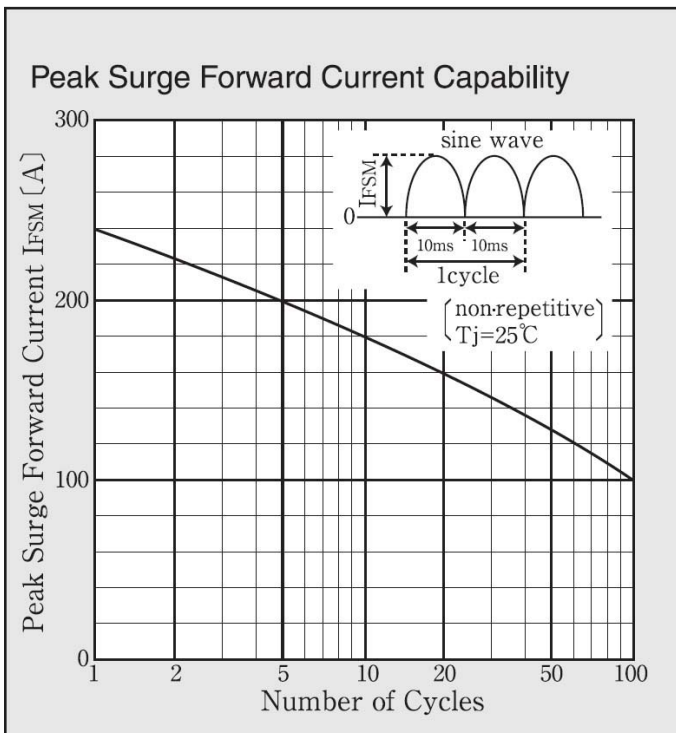
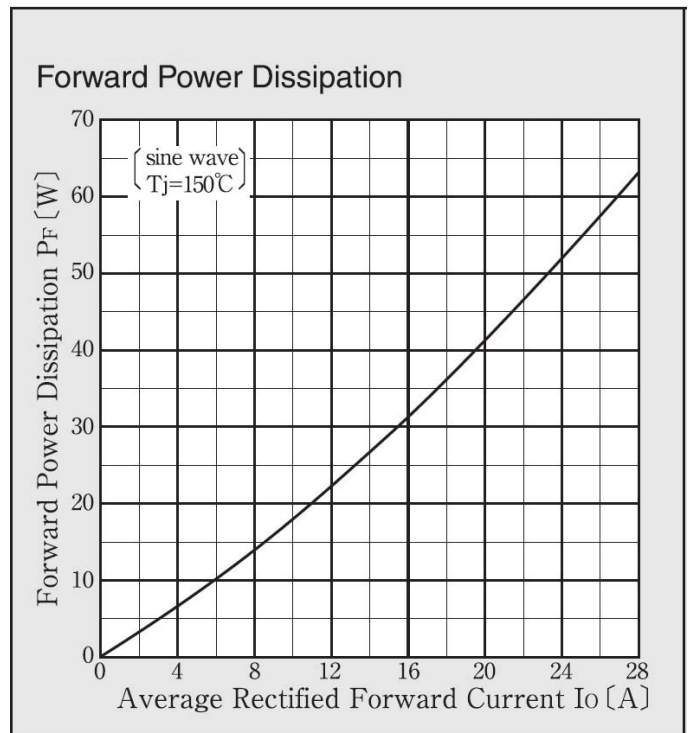
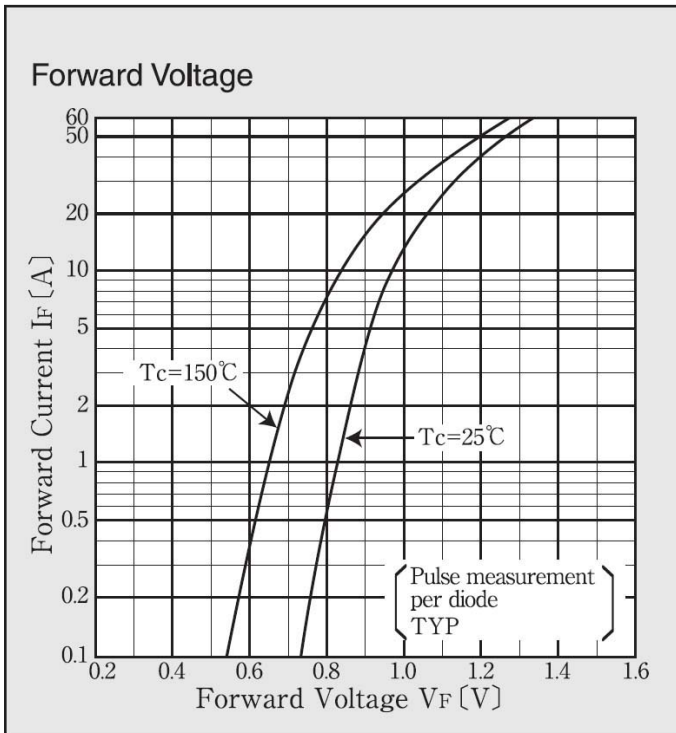
※ : See the original Specifications

**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

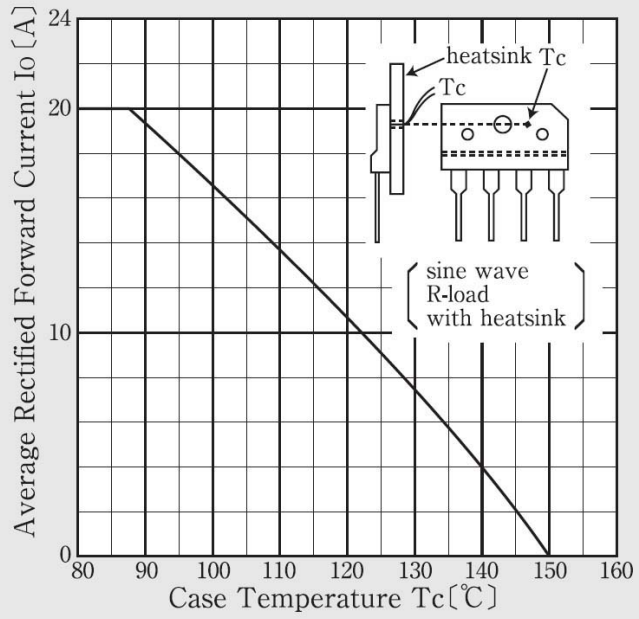
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=10A, Pulse measurement, per diode			1.1	V
Reverse current	$I_R$	VR=800V, Pulse measurement, per diode			10	$\mu$ A
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			22	°C/W

\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

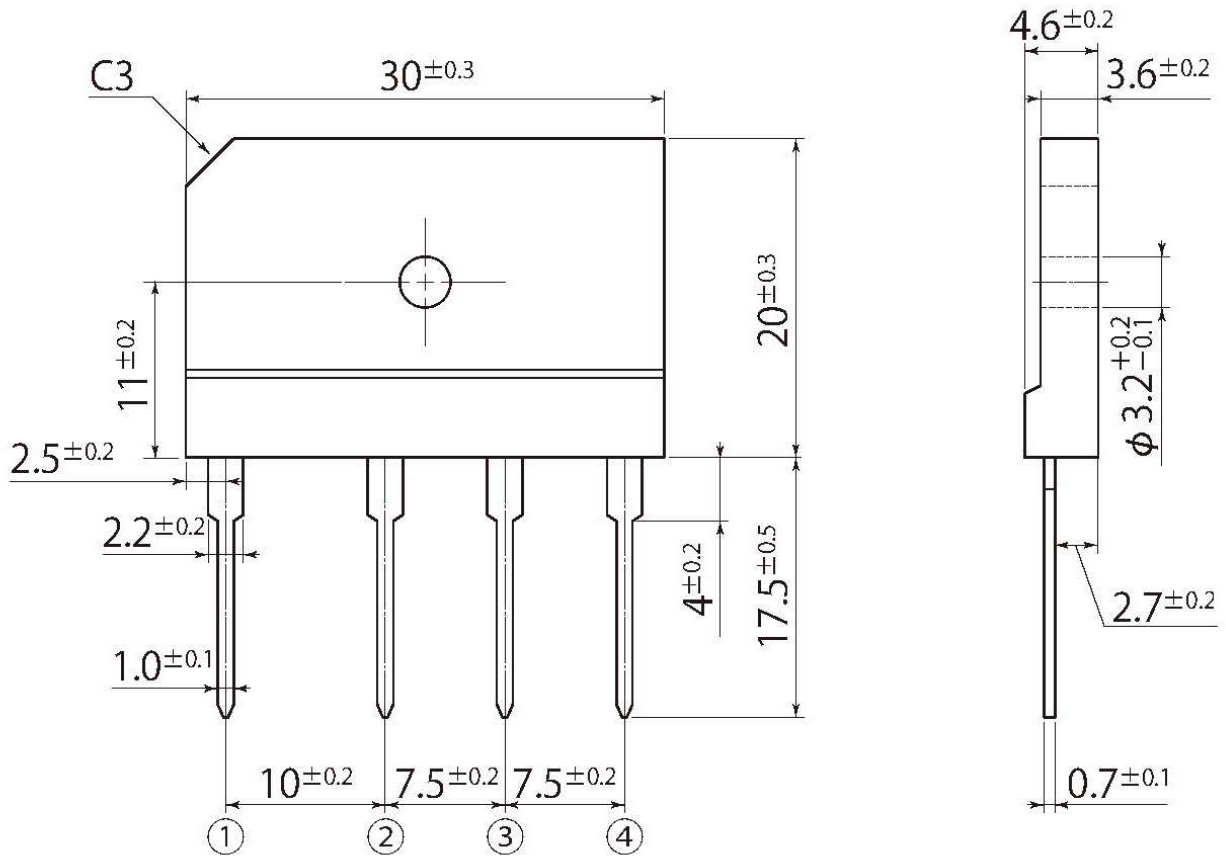


### Derating Curve



D4

JEDEC Code	-
JEITA Code	-
House Name	5S



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