

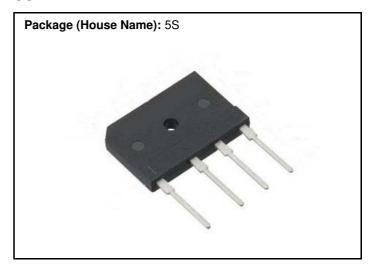
D40XB80

Bridge Diodes 800V, 40A

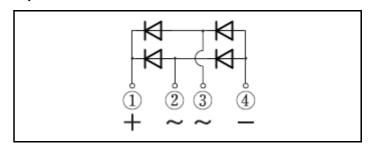
Feature

- Compact SIP
- UL E142422
- High Current
- · High heat dissipation
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		800	V
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, With heatsink, Tc=85°C	40	А
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Tl=124°C *	3.28	А
Average forward current	I _F (AV)	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	3.28	А
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	603	А
Current squared time	l²t	1ms≦tp<10ms, Tj=25°C, per diode	1512	A ² 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

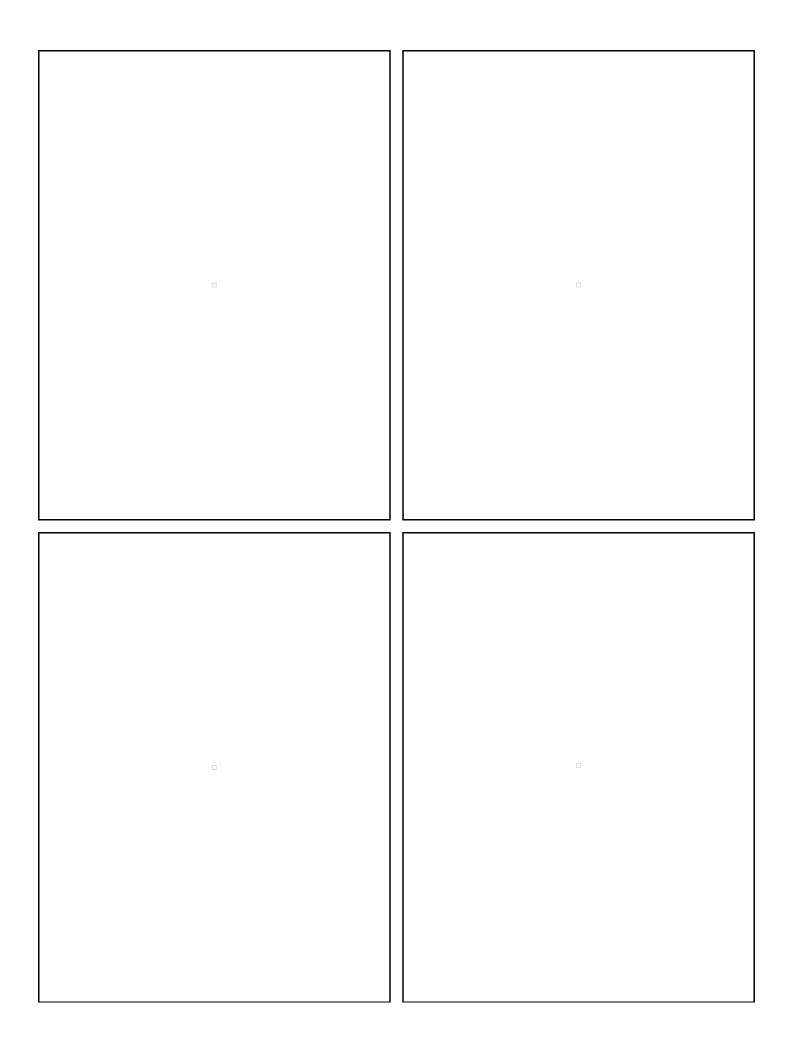
^{* :}See the original Specifications

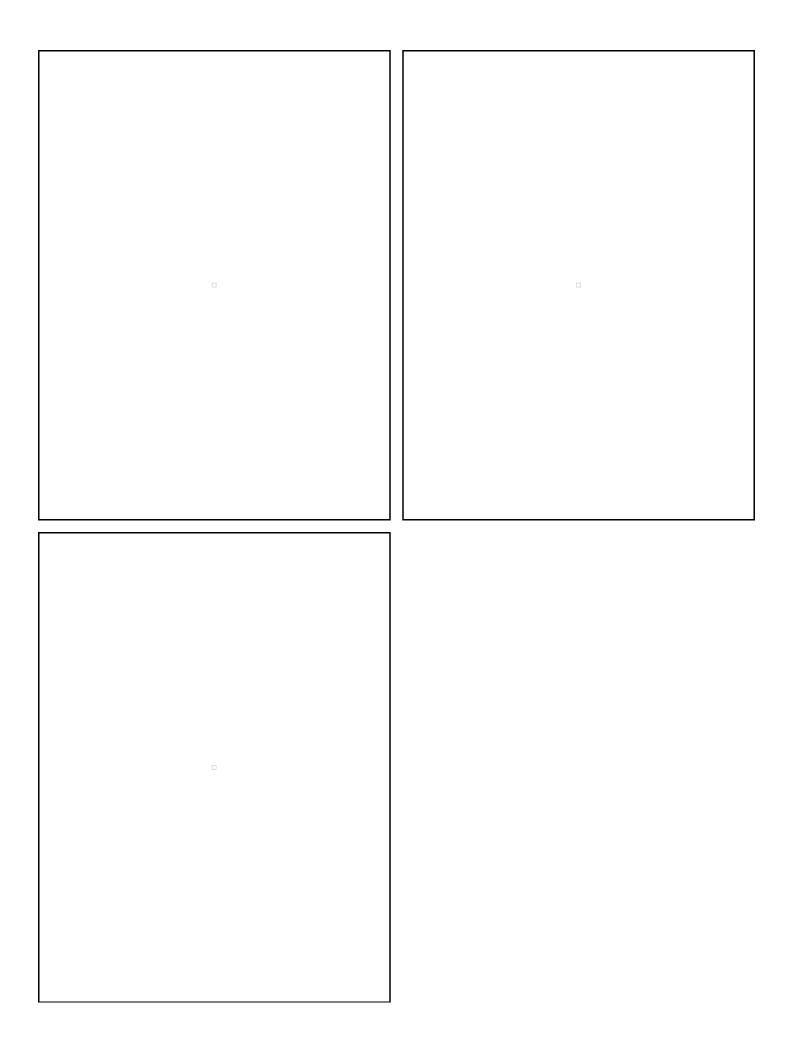
Electrical Characteristics

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	Onit
Forward voltage	V _F	IF=20A, Pulse measurement, per diode			1	V
Reverse current	I _R	VR=800V, Pulse measurement, per diode			10	μΑ
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1IR, per diode			27000	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.8	°C/W
Thermal resistance	Rth(j-l)	Junction to lead			5.2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			25	°C/W

^{*} :See the original Specifications

CHARACTERISTIC DIAGRAMS				
	1			
] [

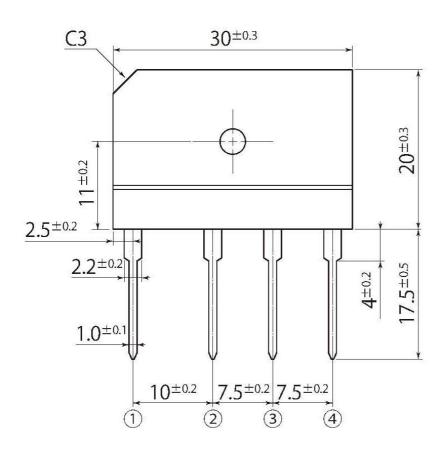


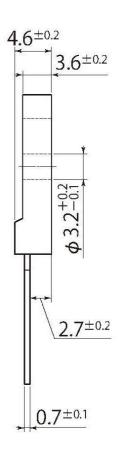


unit:mm

D4

JEDEC Code	-
JEITA Code	_
House Name	5S





Notes

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(Specific applications)

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