

D30XB80

Bridge Diodes
800V, 30A

Feature

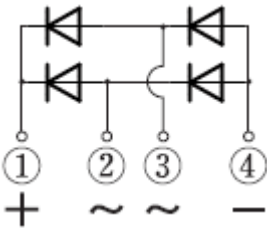
- Compact SIP
- UL E142422
- High Current
- High heat dissipation
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



Absolute Maximum Ratings

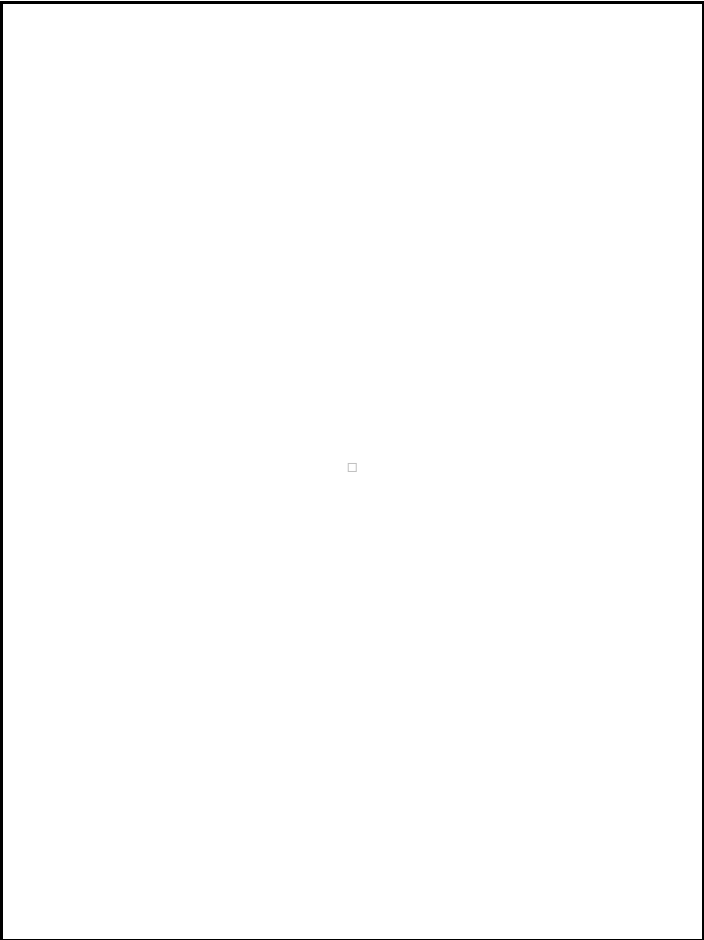
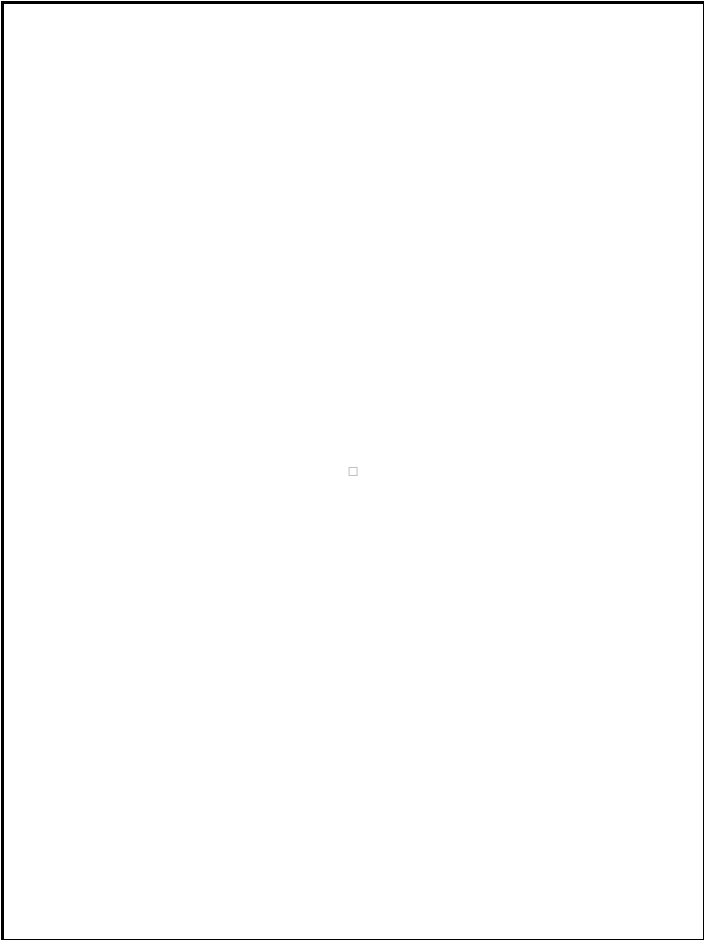
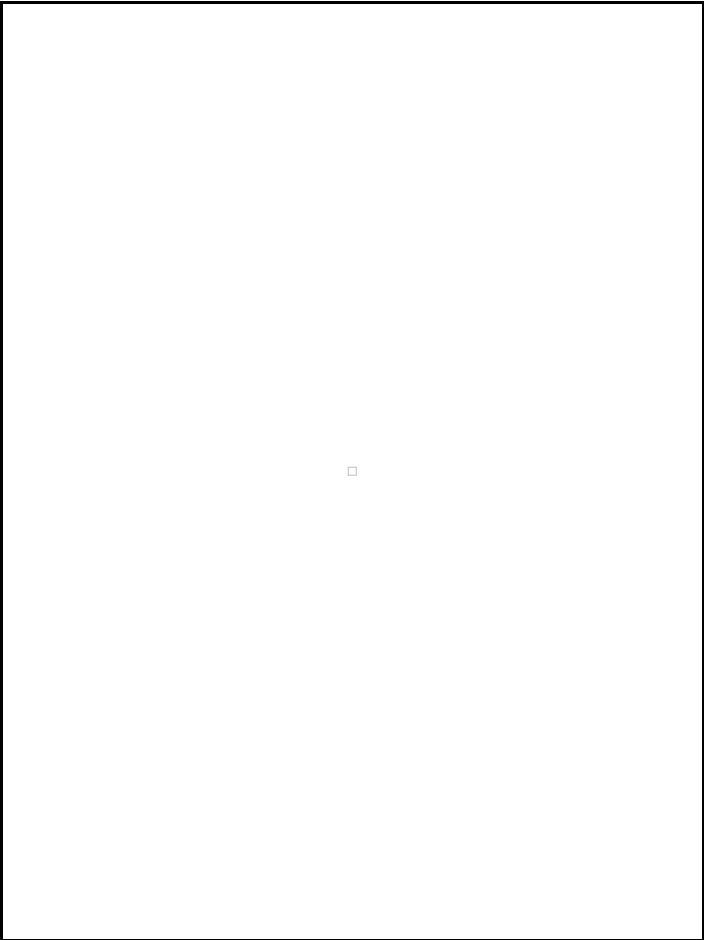
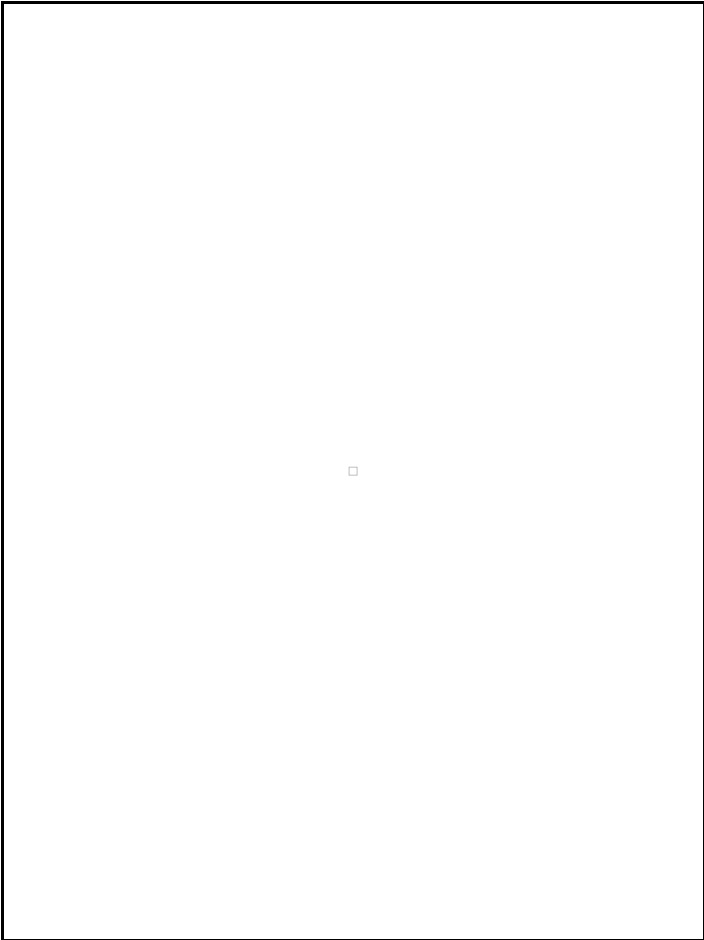
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		800	V
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, With heatsink, T _C =87°C	30	A
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	3.07	A
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C ※	3.07	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	400	A
Current squared time	I ² t	1ms≤tp<8.3ms, T _j =25°C, per diode	670	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

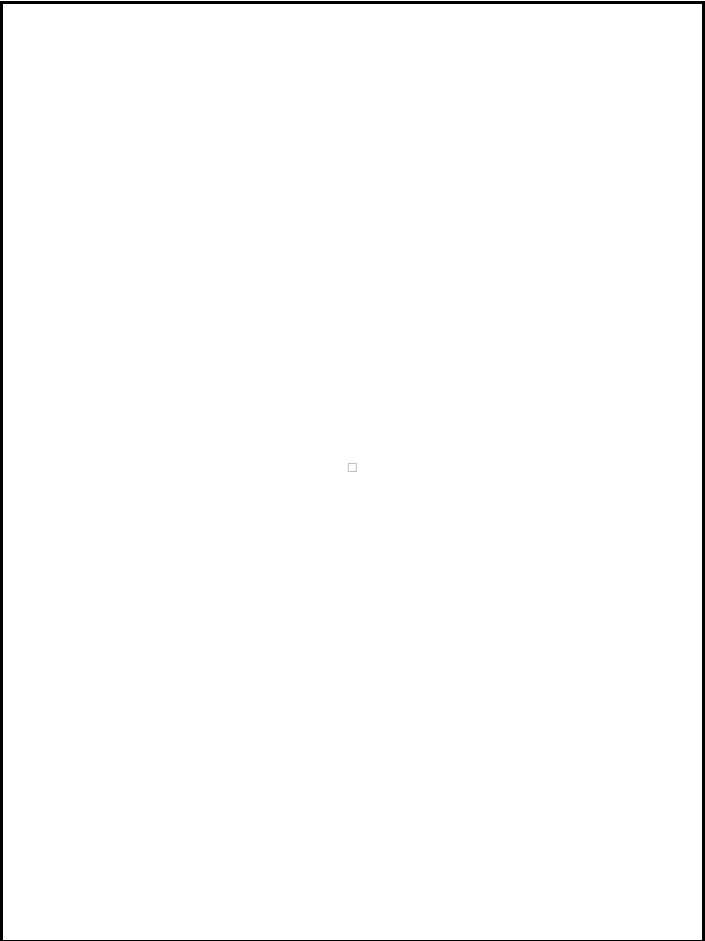
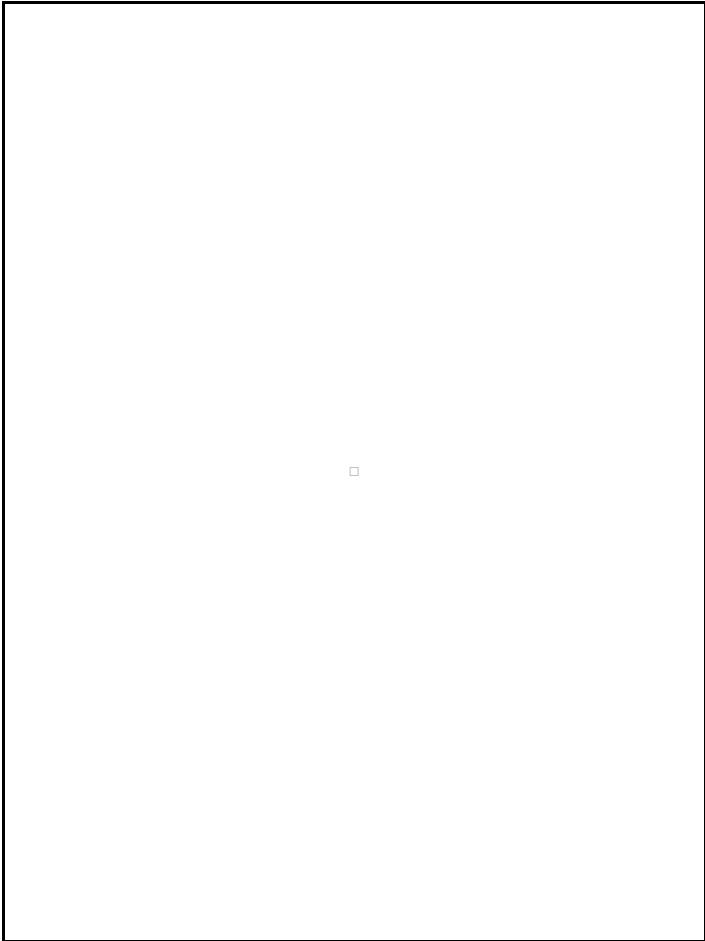
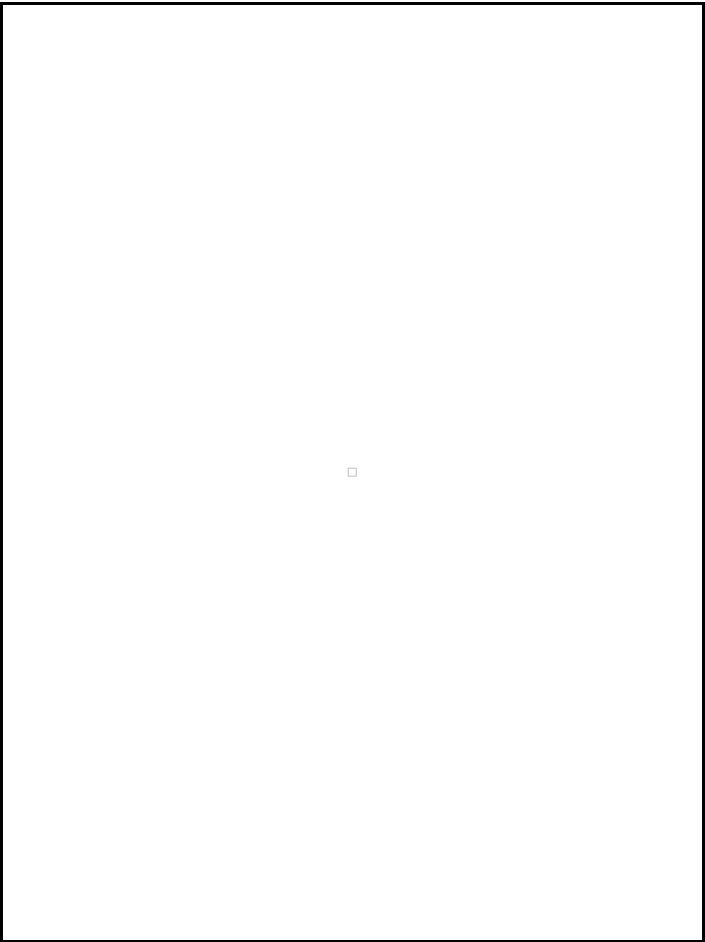
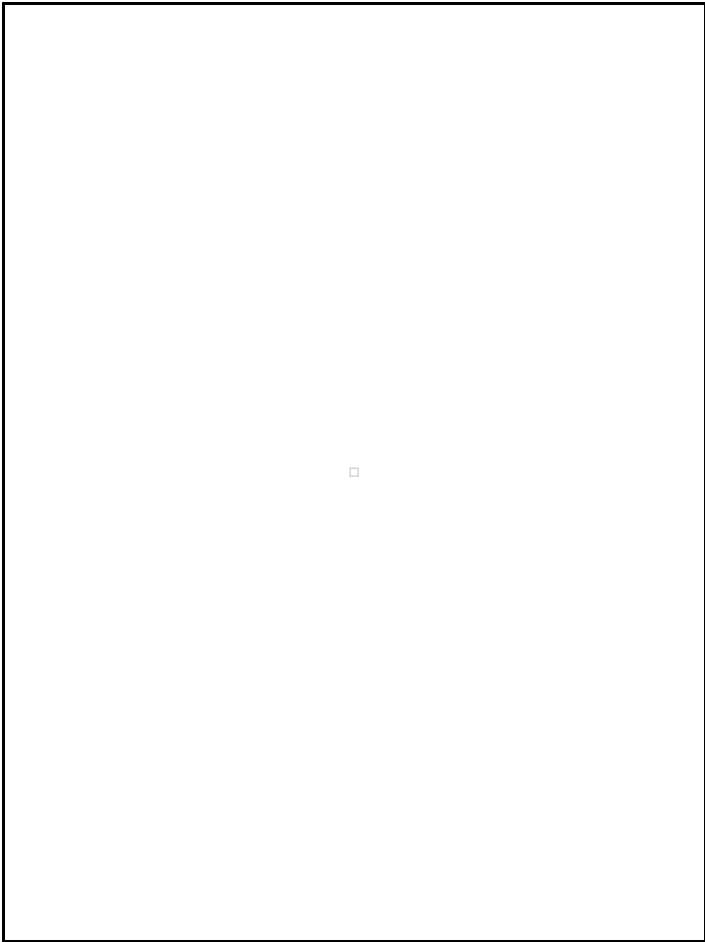
※ : See the original Specifications

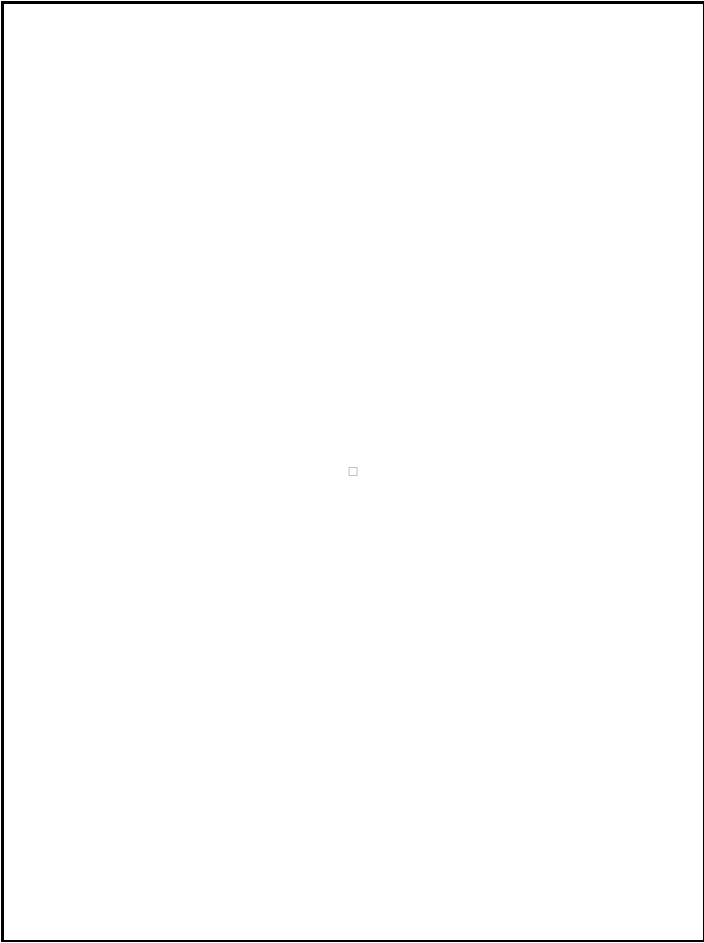
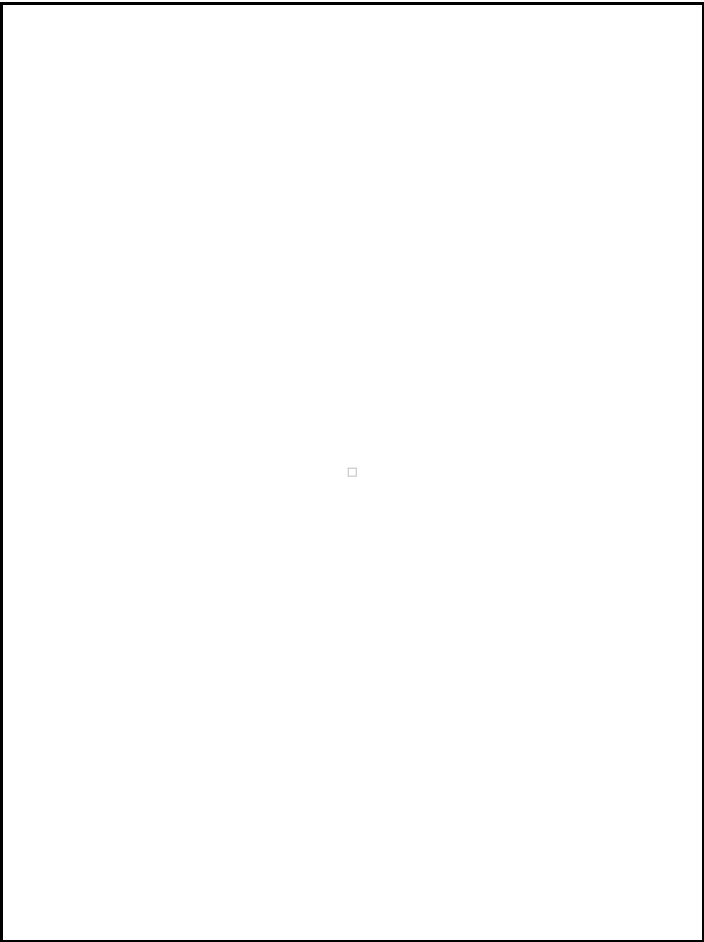
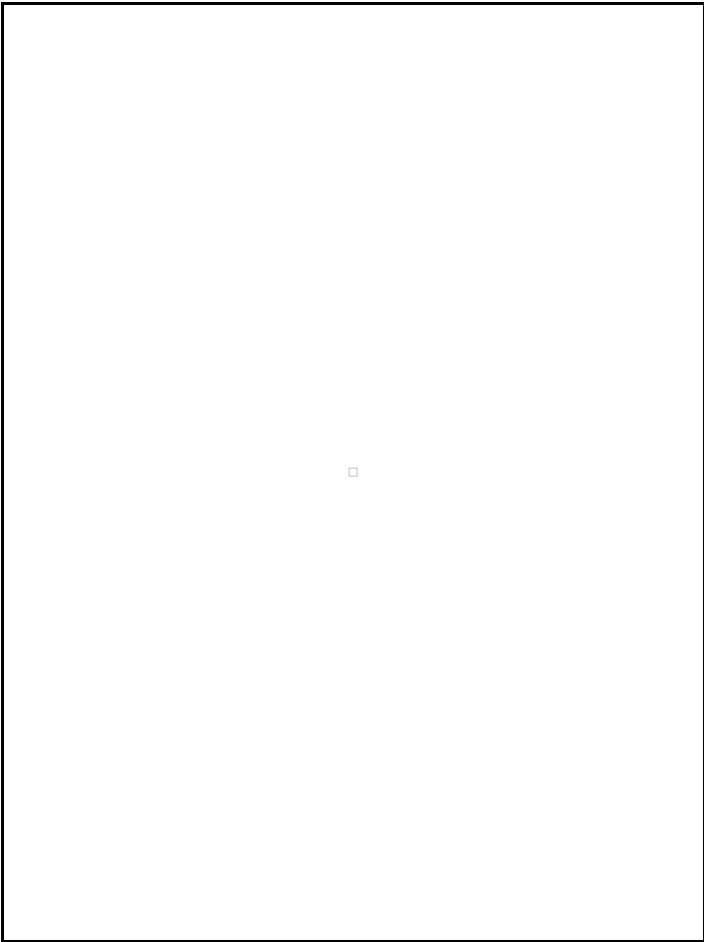
Electrical Characteristics

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=15A$, Pulse measurement, per diode			1.05	V
Reverse current	I_R	$V_R=800V$, Pulse measurement, per diode			10	μA
Reverse recovery time	t_{rr}	$I_F=0.1A$, $I_R=0.1A$, $0.1I_R$, per diode			27000	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead			5.2	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient			25	$^{\circ}C/W$

※ :See the original Specifications

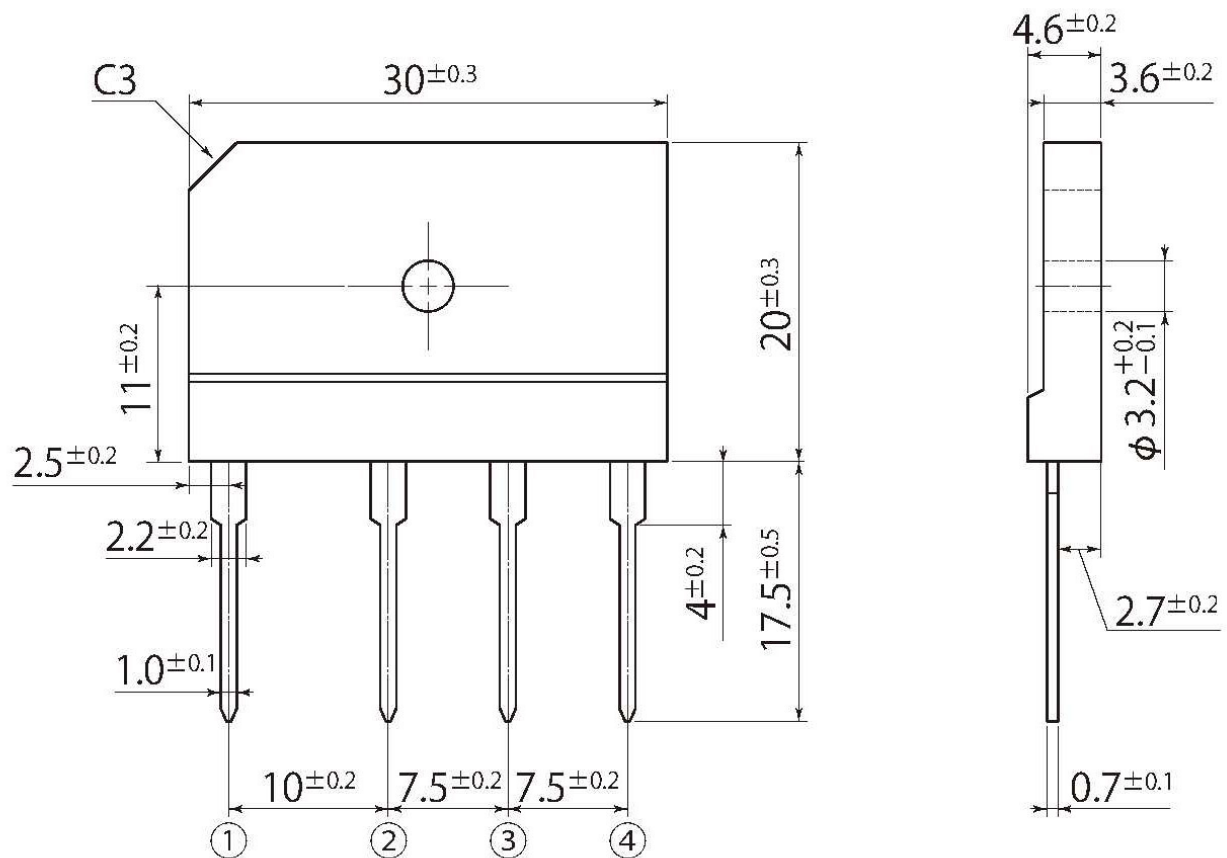






D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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