

D40XBA80

Bridge Diodes

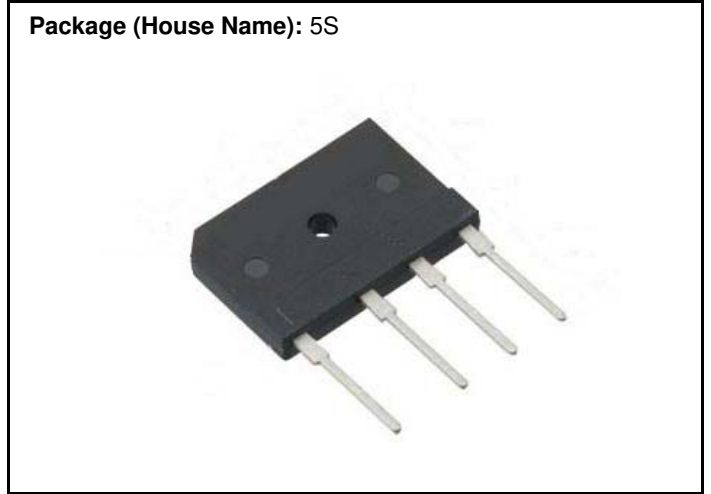
800V, 40A

Feature

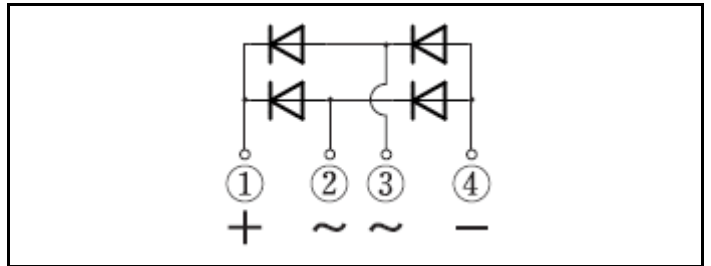
- Compact SIP
- UL E142422
- High Current
- High heat dissipation
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T _{stg}		-55 to 150	°C
Junction temperature	T _j		-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 =62°C	40	A
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, On glass-epoxy substrate, T _i =124°C *	3.13	A
Average forward current	I _{F(AV)}	60Hz sine wave, Resistance load, On glass-epoxy substrate, T _a =25°C *	3.13	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	400	A
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, T _j =25°C	1158	A
Current squared time	I ² t	1ms ≤ t _p < 8.3ms, T _j =25°C, per diode	670	A ² s
Dielectric strength	V _{dis}	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : 0.5N·m)	0.8	N·m

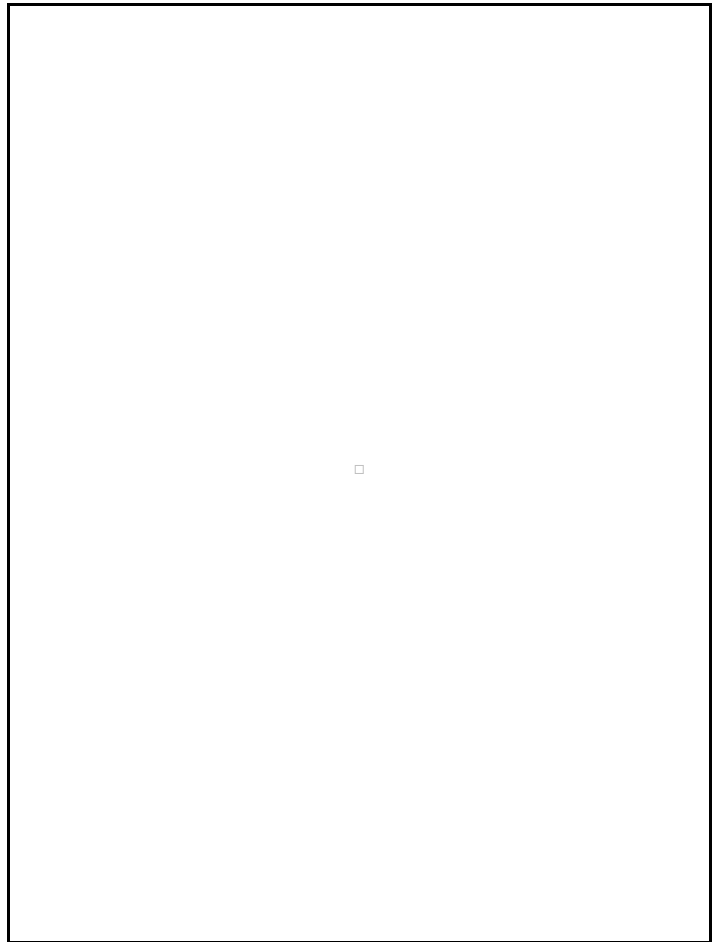
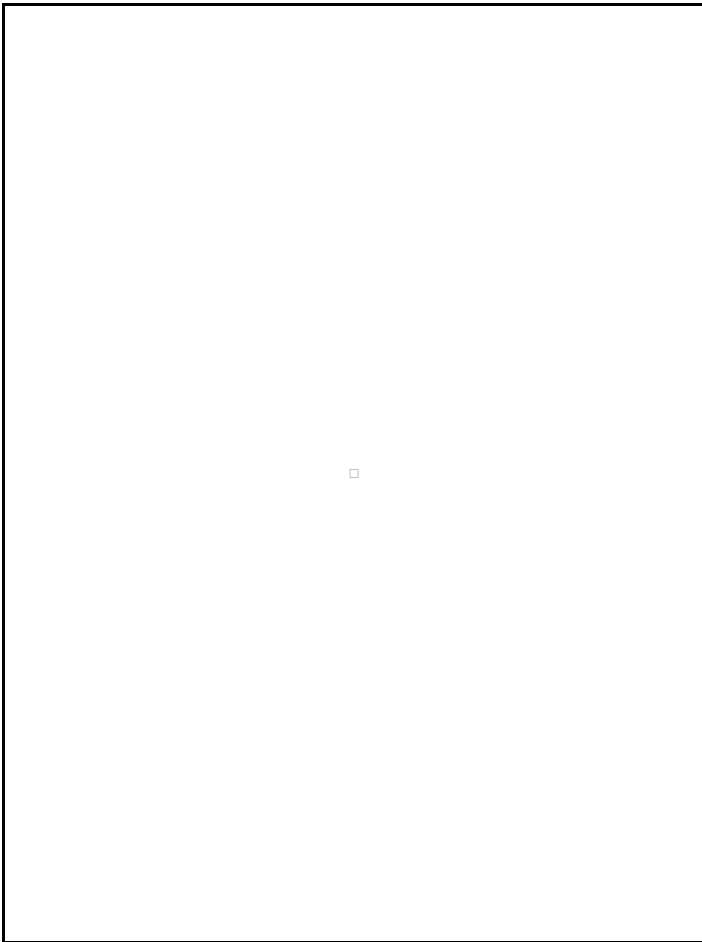
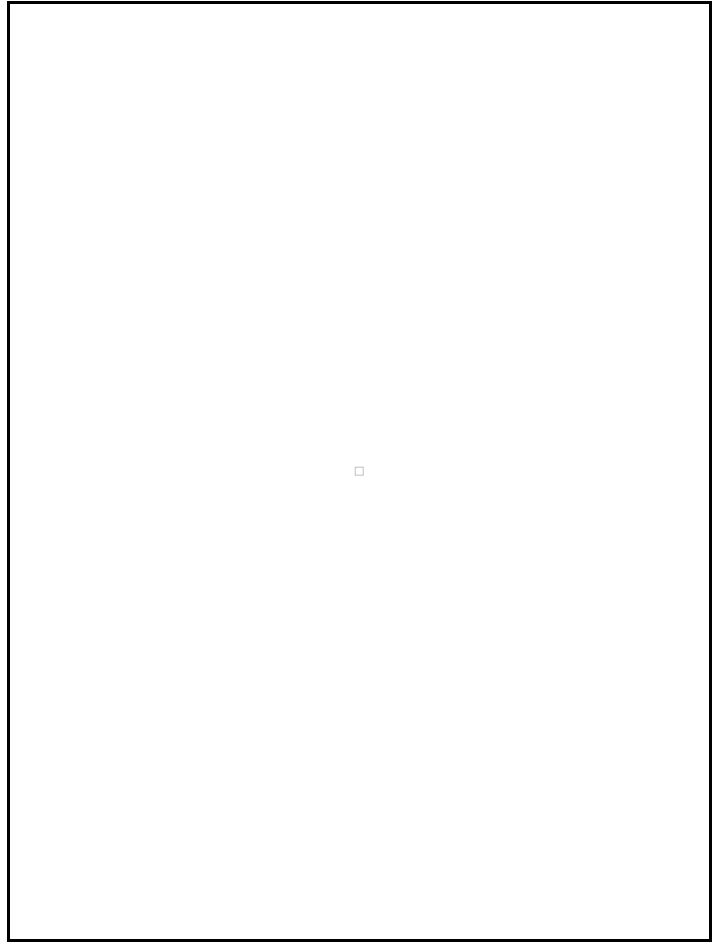
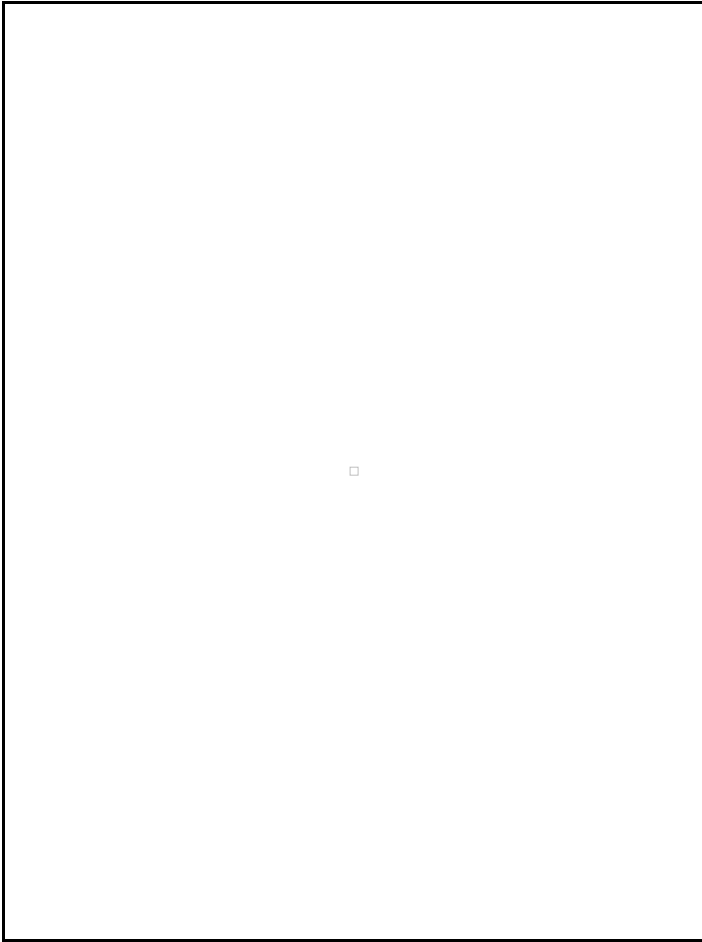
* :See the original Specifications

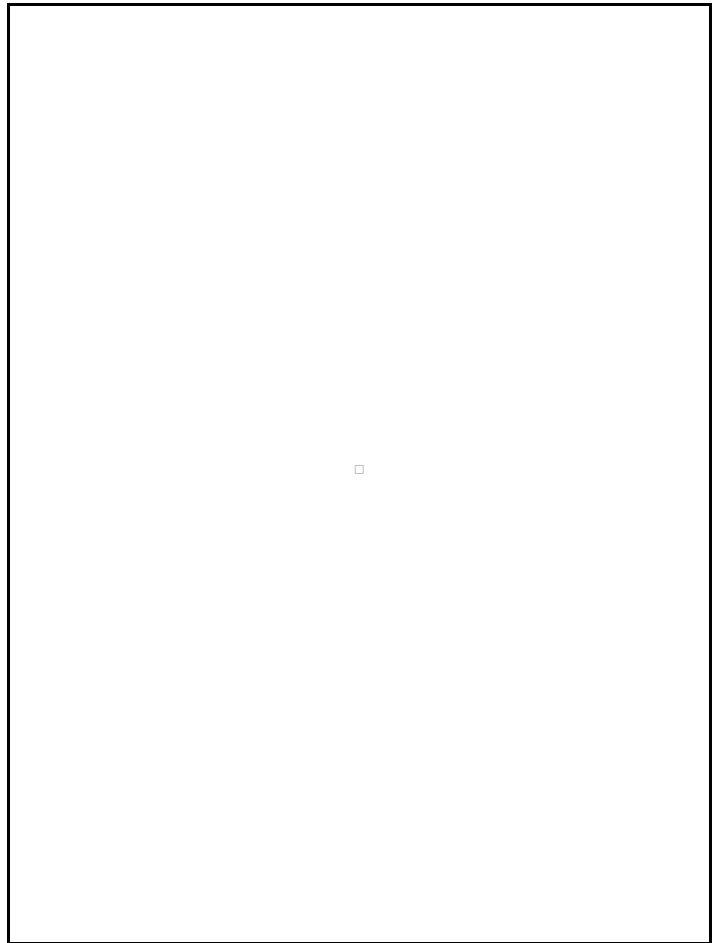
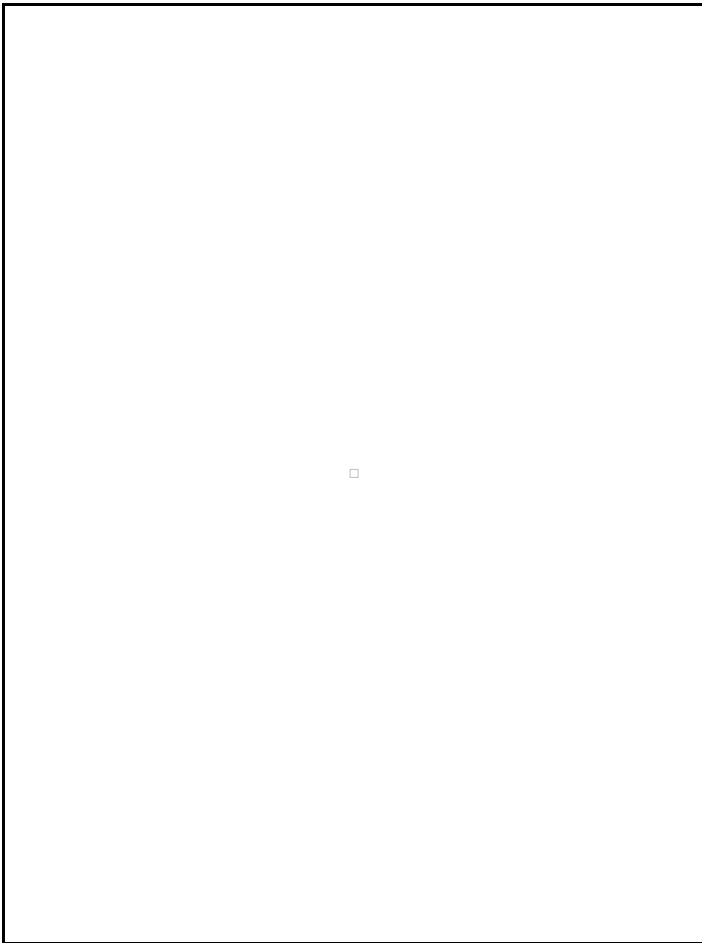
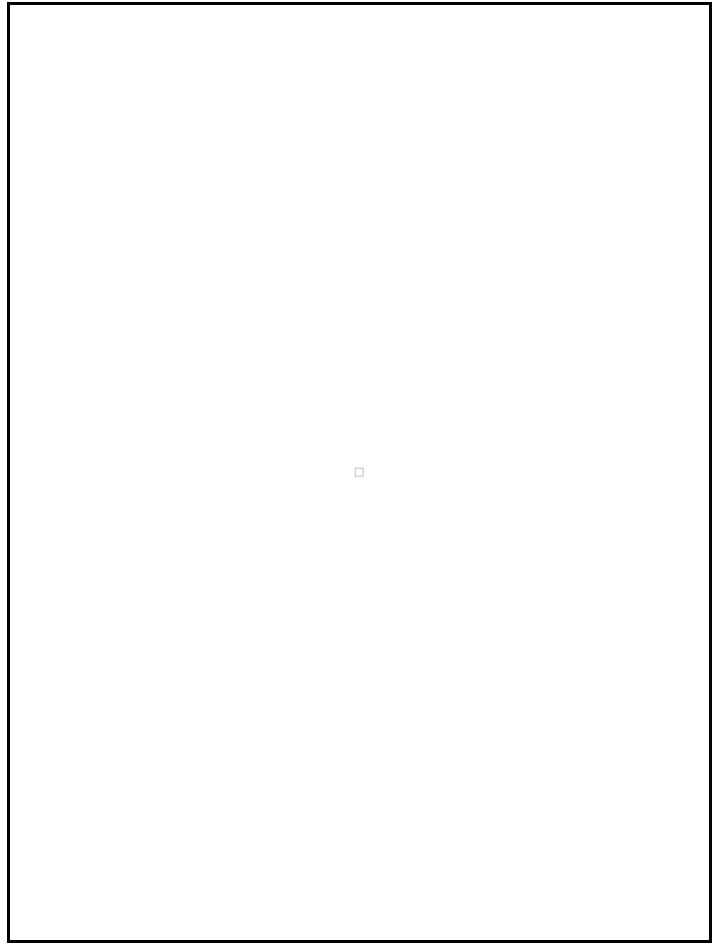
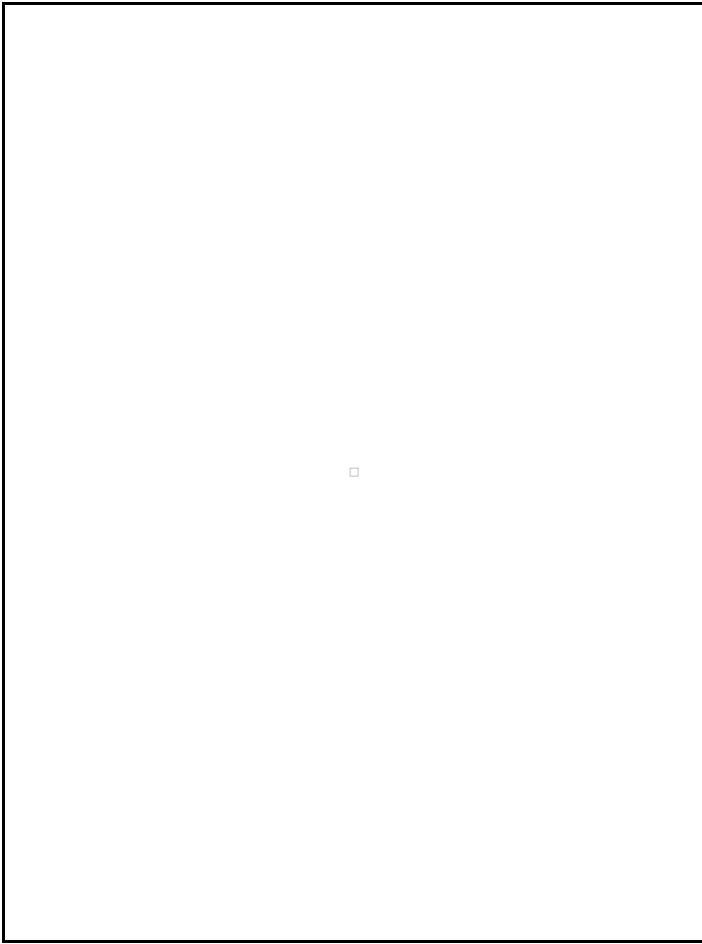
Electrical Characteristics

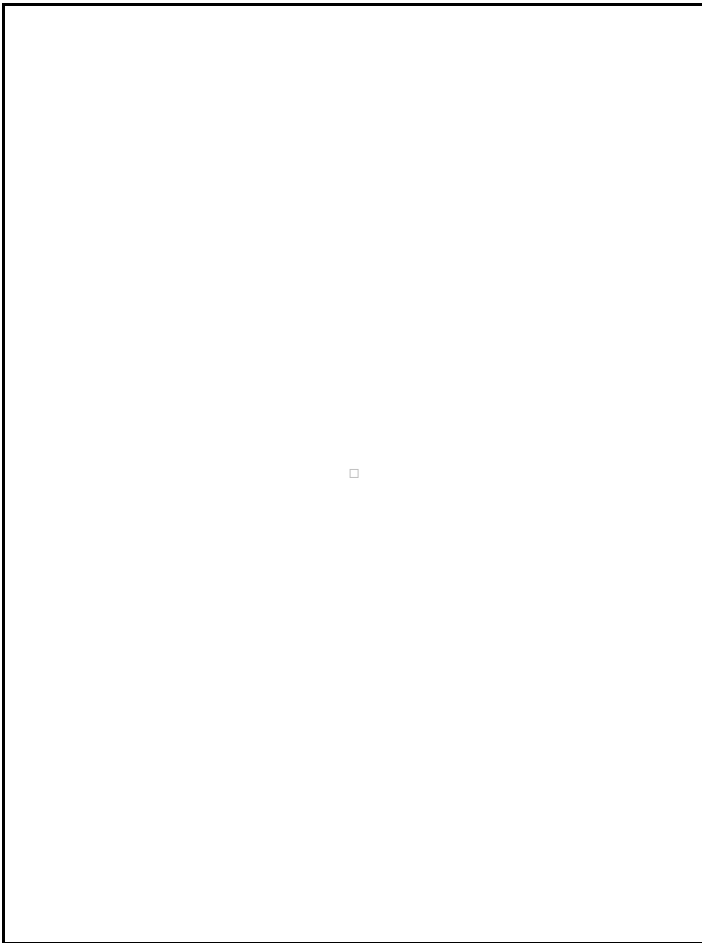
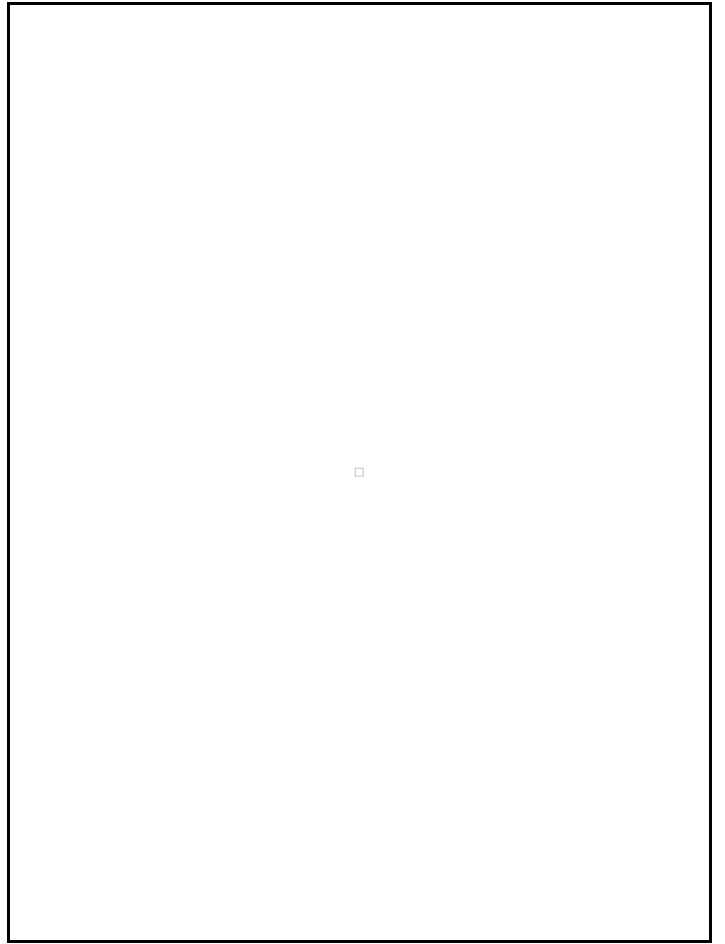
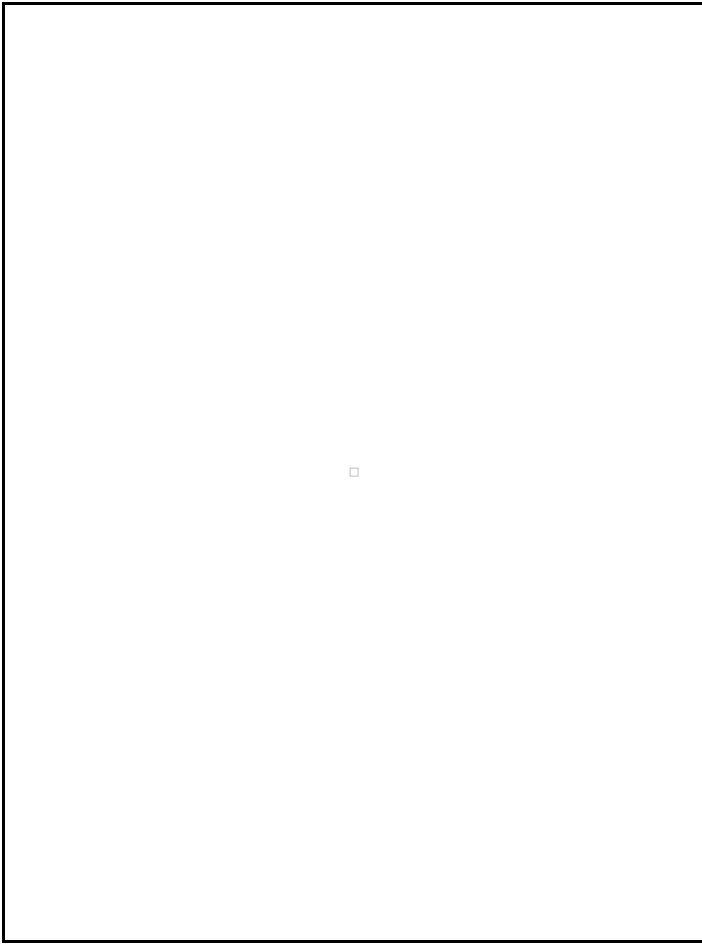
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=20A$, Pulse measurement, per diode			1.05	V
Reverse current	I_R	$V_R=800V$, Pulse measurement, per diode			10	μA
Reverse recovery time	t_{rr}	$I_F=0.1A$, $I_R=0.1A$, $0.1I_R$, per diode			27000	ns
Thermal resistance	$R_{th(j-c)}$	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

CHARACTERISTIC DIAGRAMS

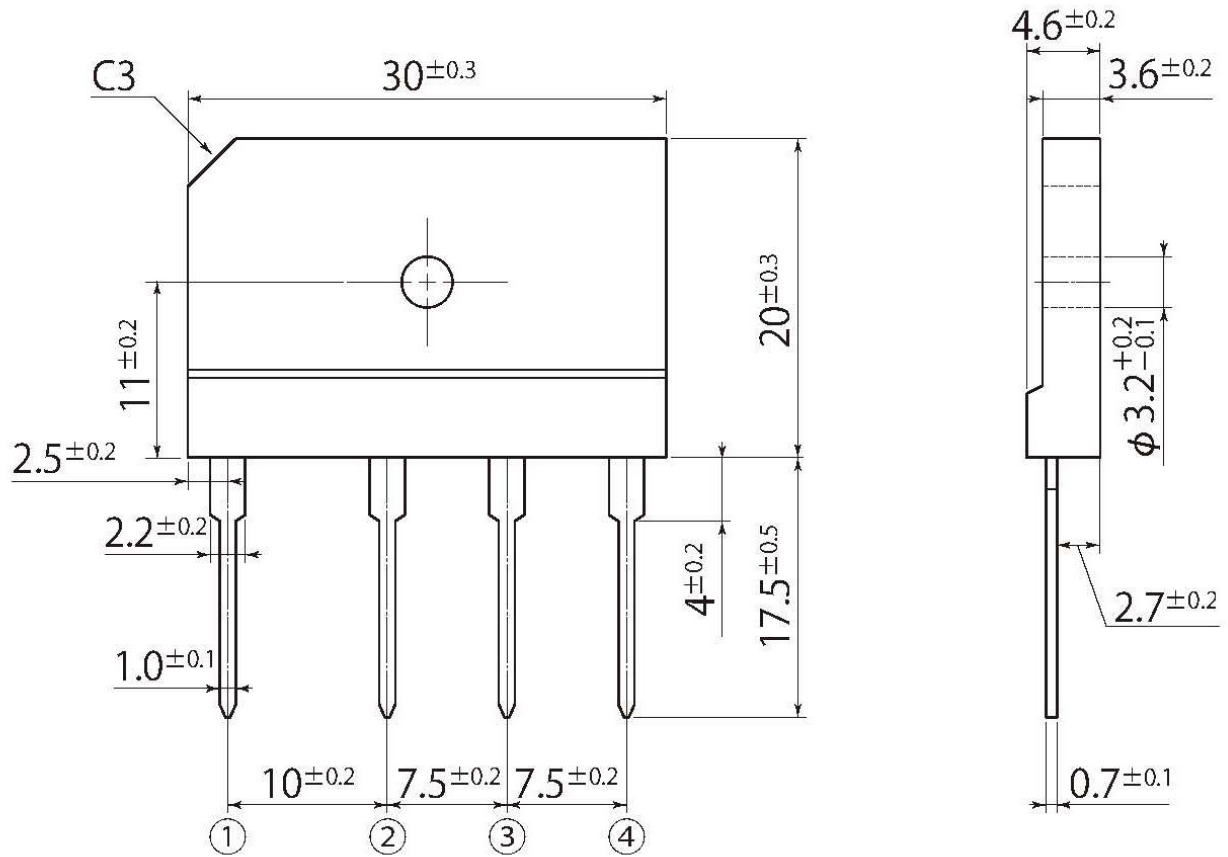






D4

JEDEC Code	-
JEITA Code	-
House Name	5S



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