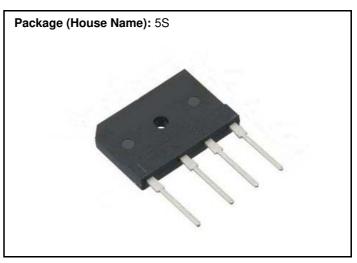
LN15XB60H Bridge Diodes

600V, 15A

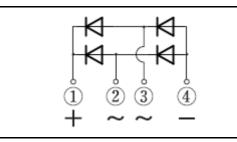
Feature

- Compact SIP
- Low Noise
- $\bullet \ Low \ V_F$
- High I_{FSM}
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

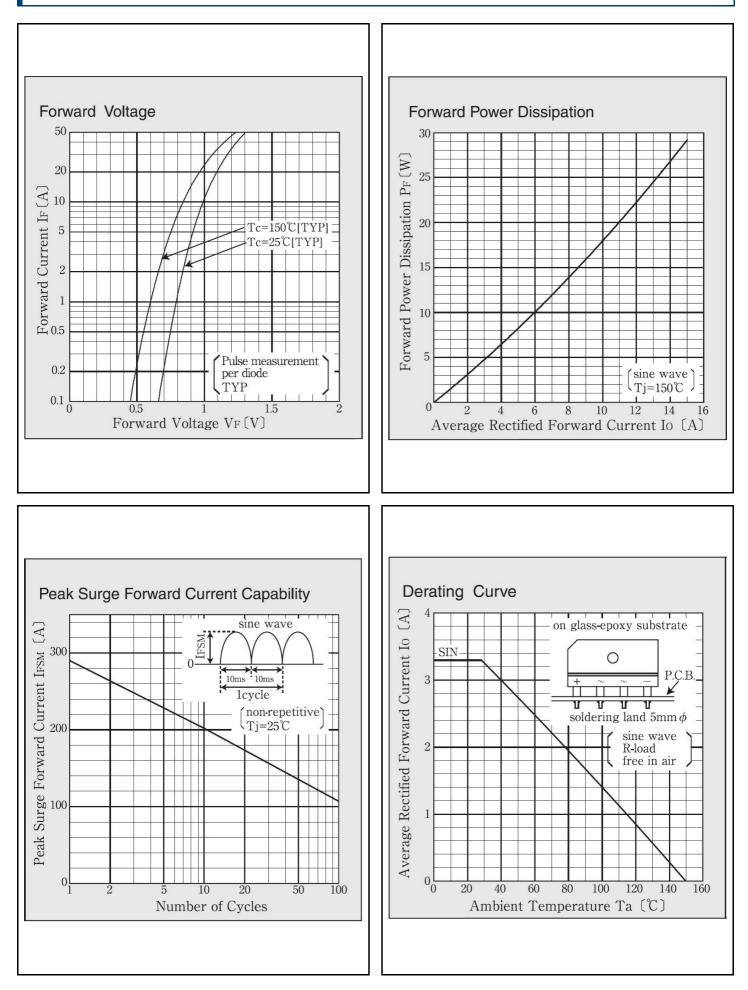
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=106°C	15	A
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink Ta=28°C	3.3	A
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	290	А
Current squared time	ľt	1ms≦t<10ms, Tj=25°C, per diode	200	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

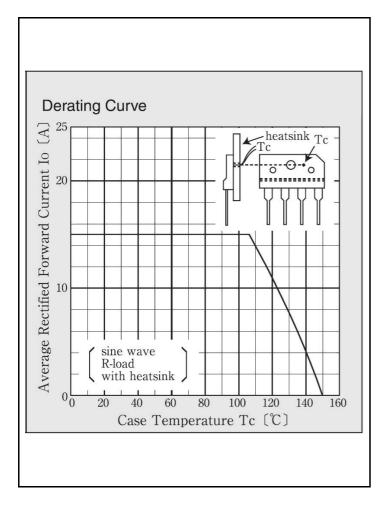
* : See the original Specifications

Item	Symbol	Conditions		Ratings		
	Symbol		MIN	ТҮР	MAX	Unit
Forward voltage	V _F	IF=7.5A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=600V, Pulse measurement, per diode			10	μA
Reverse recovery time	trr	IF=0.1A, IR=0.1A, per diode			5000	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.5	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, Without heatsink			5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, Without heatsink			23	°C/W

* : See the original Specifications

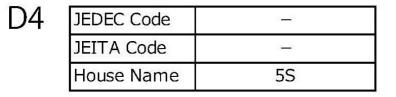
CHARACTERISTIC DIAGRAMS

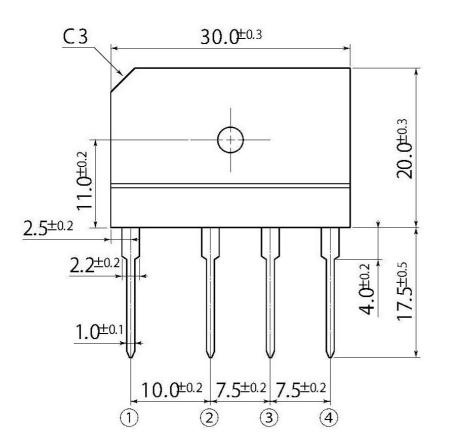


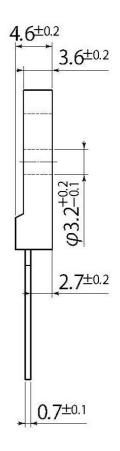


unit:mm

scale: 2/1







Notes

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[Special applications]

Transportation equipment (vehicles, ships, etc.), trunk-line communication equipment, traffic signal control systems, antidisaster/crime systems, safety equipment, medical equipment, etc.

[Specific applications]

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