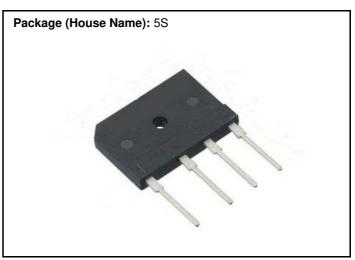
LK25XB60 Bridge Diodes

600V, 25A

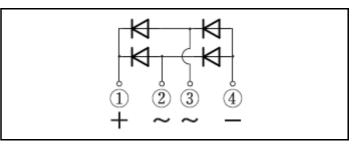
Feature

- Compact SIP
- $\bullet \ Low \ V_F$
- High lightning surge capability
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



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

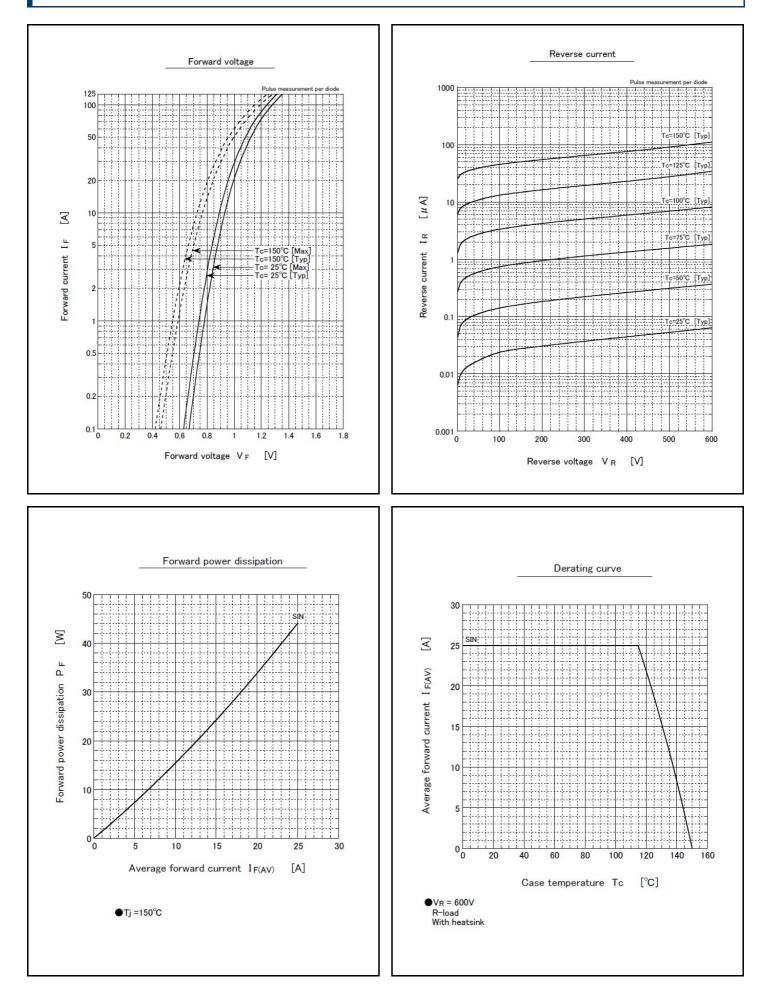
Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=114°C	25	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, TI=25°C *	15	А
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, On glass-epoxy substrate, Ta=25°C *	3.5	А
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	603	А
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	550	А
Surge forward current	I _{FSM1}	tp=1ms, sine wave, Non-repetitive, peak value, per diode, Tj=25°C	1738	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

Item	Symbol	Conditions	Ratings			Unit
	Symbol		MIN	ТҮР	MAX	Onit
Forward voltage	V _F	IF=12.5A, Pulse measurement, per diode			0.95	V
Reverse current	I _R	VR=600V, Pulse measurement, per diode			10	μA
Reverse recovery time	trr	IF=0.1A, IR=0.1A, 0.1IR, per diode			5000	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			0.8	°C/W
Thermal resistance	Rth(j-l)	Junction to lead, On glass-epoxy substrate *			5.2	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient, On glass-epoxy substrate *			25	°C/W
EMC surge immunity	V _{EMS}	*		10		kV

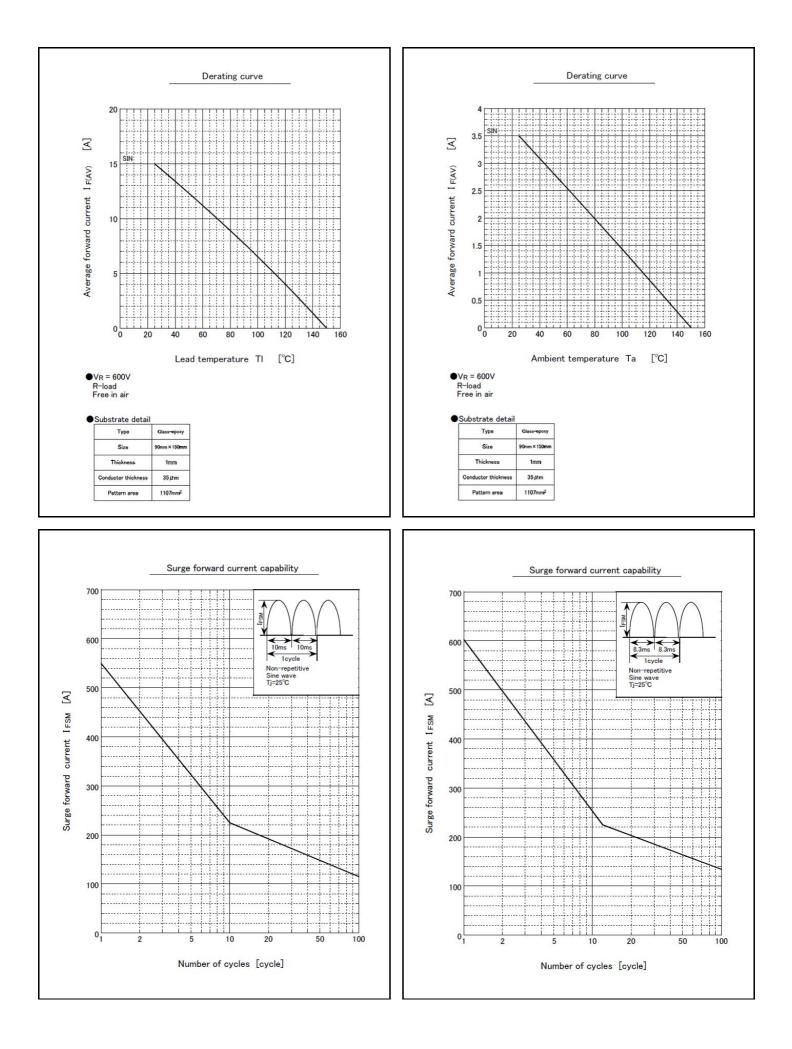
* : See the original Specifications

CHARACTERISTIC DIAGRAMS

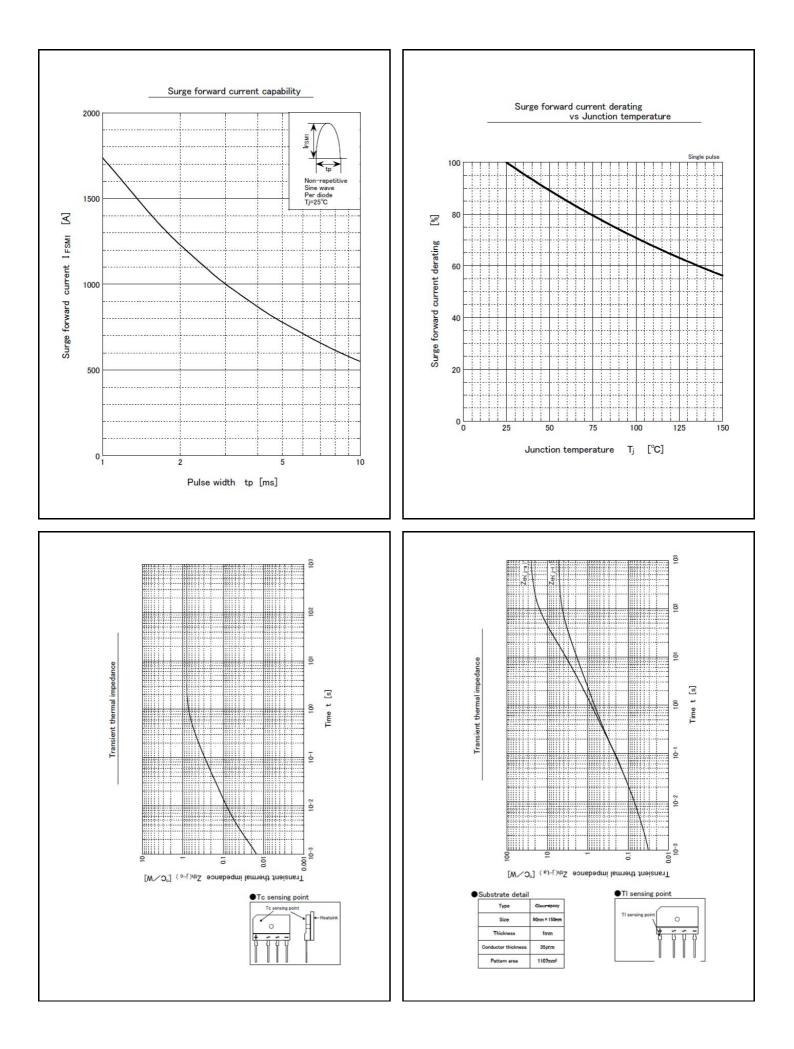


3/7

Shindengen Electric Manufacturing Co., Ltd.



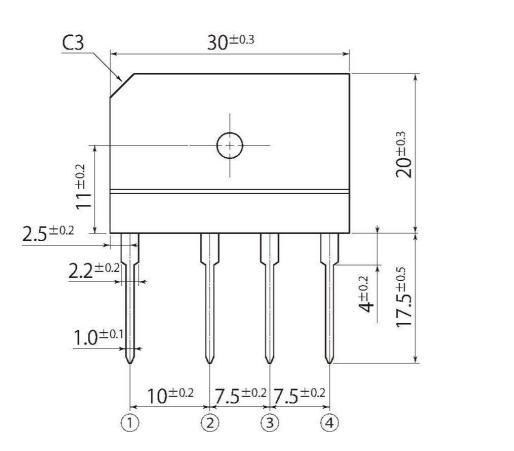
4/7

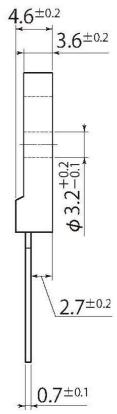


unit:mm

D4

JEDEC Code	_
JEITA Code	_
House Name	5S





Notes

- 1. If you wish to use any such product, please be sure to refer to the specifications issued by Shindengen.
- 2. All products described or contained herein are designed with a quality level intended for use in standard applications requiring an ordinary level of reliability. If these products are to be used in equipment or devices for special or specific applications requiring an extremely high grade of quality or reliability in which failures or malfunctions of products may directly affect human life or health, a local Shindengen office must be contacted in advance to confirm that the intended use of the product is appropriate. Shindengen products are grouped into the following three applications according the quality grade.

[Standard applications]

Computers, office automation and other office equipment, communication terminals, test and measurement equipment, audio/visual equipment, amusement equipment, consumer electronics, machine tools, personal electronic equipment, industrial equipment, etc.

[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]

Nuclear reactor control systems, aircraft, aerospace equipment, submarine repeaters, life support equipment and systems, etc.

- 3. Although Shindengen continuously endeavors to enhance the quality and reliability of its products, customers are advised to consider and take safety measures in their design, such as redundancy, fire containment and anti-failure, so that personal injury, fires, or societal damages can be prevented.
- 4. Please note that all information described or contained herein is subject to change without notice due to product upgrades and other reasons. When buying Shindengen products, please contact the Company's offices or distributors to obtain the latest information.
- 5. Shindengen shall not bear any responsibility with regards to damages or infringement of any third-party patent rights and other intellectual property rights incurred due to the use of information on this website.
- 6. The information and materials on this website neither warrant the use of Shindengen's or any third party's patent rights and other intellectual property rights, nor grant license to such rights.
- 7. In the event that any product described or contained herein falls under the category of strategic products controlled under the Foreign Exchange and Foreign Trade Control Law of Japan, exporting of such products shall require an export license from the Japanese government in accordance with the above law.
- 8. No reprinting or reproduction of the materials on this website, either in whole or in part, is permitted without proper authorization from Shindengen.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers category:

Click to view products by Shindengen manufacturer:

Other Similar products are found below :

 MB2510
 MB252
 MB356G
 MB358G
 GBJ1504-BP
 GBU15J-BP
 GBU15K-BP
 GBU4A-BP
 GBU4D-BP
 GBU6B-E3/45
 GSIB680-E3/45

 DB101-BP
 DF01
 DF10SA-E345
 BU1508-E3/45
 KBPC50-10S
 RS405GL-BP
 G5SBA60-E3/51
 GBJ1502-BP
 GBU10J-BP
 GBU4J-BP

 GBU6M
 GBU8D-BP
 GBU8J-BP
 GSIB1520-E3/45
 2KBB10
 36MB140A
 TB102M
 MB1510
 MB258
 MB6M-G
 MB86
 TL401G

 MDA920A2
 TU602
 TU810
 BR1005-BP
 BR101-BP
 BR84DTP204
 BU2008-E3/51
 36MB100A
 36MT160
 KBPC25-02
 VS-2KBB60

 DBB08G-TM-E
 DBD250G
 DBF20G
 DF06SA-E345
 DF1510S
 VS-40MT160PAPBF