

# LL25XB60

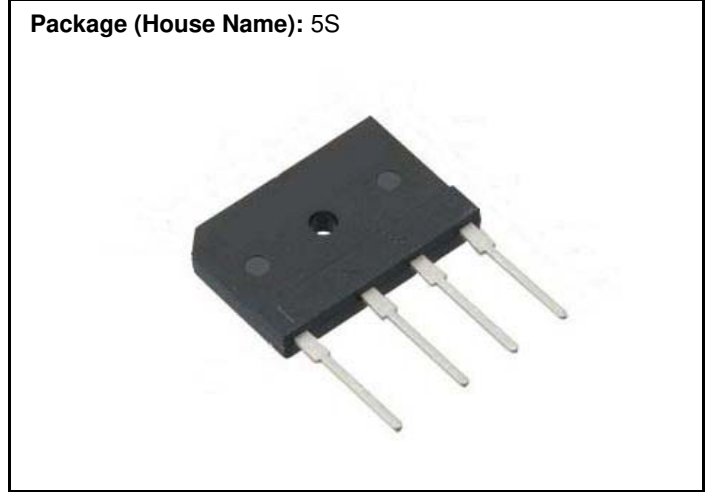
Bridge Diodes  
600V, 25A

### Feature

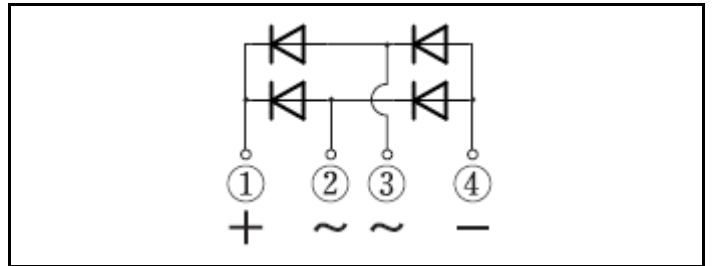
- Compact SIP
- Low Noise
- Low  $V_F$
- UL E142422
- Pb free terminal
- RoHS:Yes

### OUTLINE

Package (House Name): 5S



### Equivalent circuit



### Absolute Maximum Ratings (unless otherwise specified : $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	$T_{stg}$		-55 to 150	$^\circ\text{C}$
Junction temperature	$T_j$		-55 to 150	$^\circ\text{C}$
Repetitive peak reverse voltage	$V_{RRM}$		600	V
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, With heatsink, $T_c=113^\circ\text{C}$	25	A
Average forward current	$I_{F(AV)}$	50Hz sine wave, Resistance load, On glass-epoxy substrate, $T_a=25^\circ\text{C}$ ※	3.6	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	300	A
Surge forward current	$I_{FSM1}$	$t_p=1\text{ms}$ , sine wave, Non-repetitive, peak value, per diode, $T_j=25^\circ\text{C}$	945	A
Current squared time	$I^2t$	$1\text{ms} \leq t_p < 10\text{ms}$ , $T_j=25^\circ\text{C}$ , per diode	450	$\text{A}^2\text{s}$
Dielectric strength	$V_{dis}$	Terminals to case, AC 1 minute	2.5	kV
Mounting torque	TOR	(Recommended torque : $0.5\text{N}\cdot\text{m}$ )	0.8	$\text{N}\cdot\text{m}$

※ : See the original Specifications

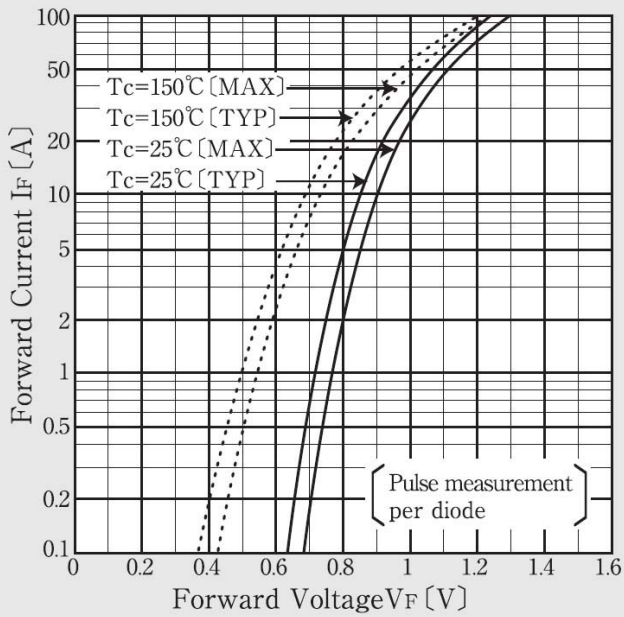
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =12.5A, Pulse measurement, per diode		0.87	0.92	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V, Pulse measurement, per diode			10	μA
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =0.1A, I <sub>R</sub> =0.1A, 0.1I <sub>R</sub> , per diode			3000	ns
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case, With heatsink			0.8	°C/W
Thermal resistance	R <sub>th(j-l)</sub>	Junction to lead, On glass-epoxy substrate *			5	°C/W
Thermal resistance	R <sub>th(j-a)</sub>	Junction to ambient, On glass-epoxy substrate *			25	°C/W

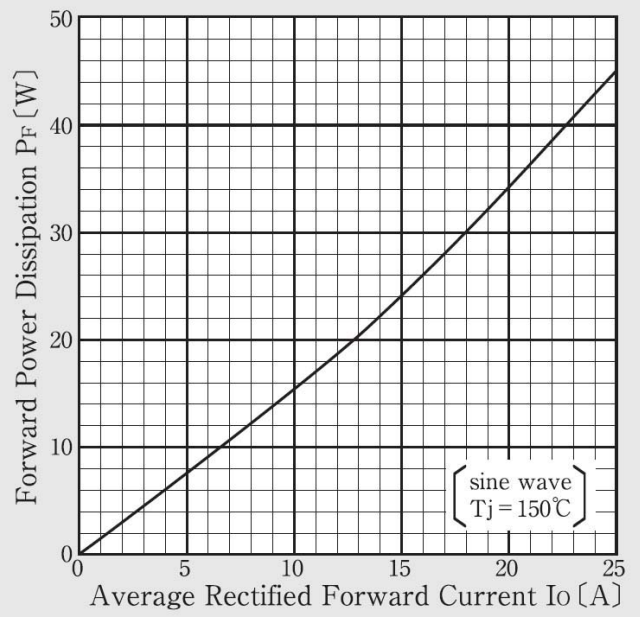
\* :See the original Specifications

# CHARACTERISTIC DIAGRAMS

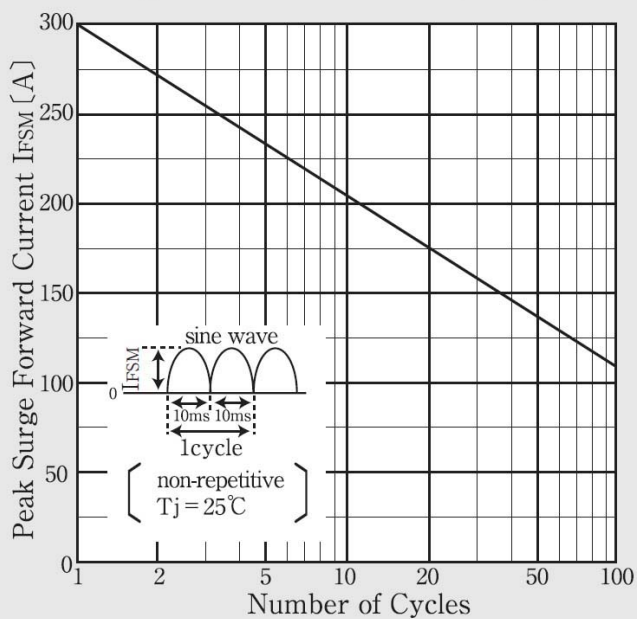
### Forward Voltage



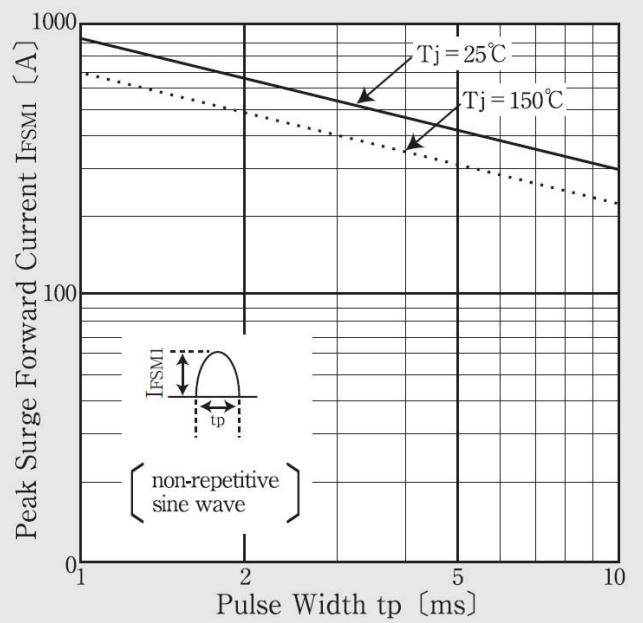
### Forward Power Dissipation

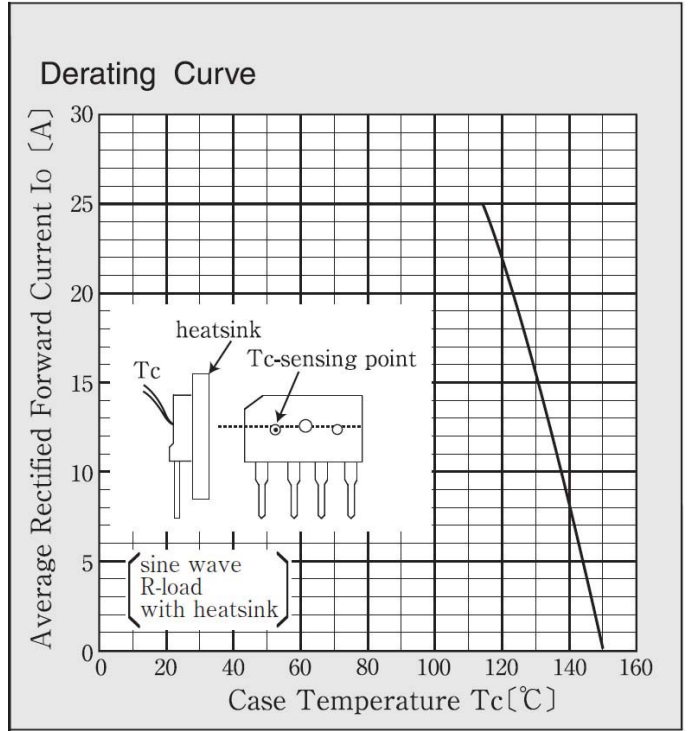
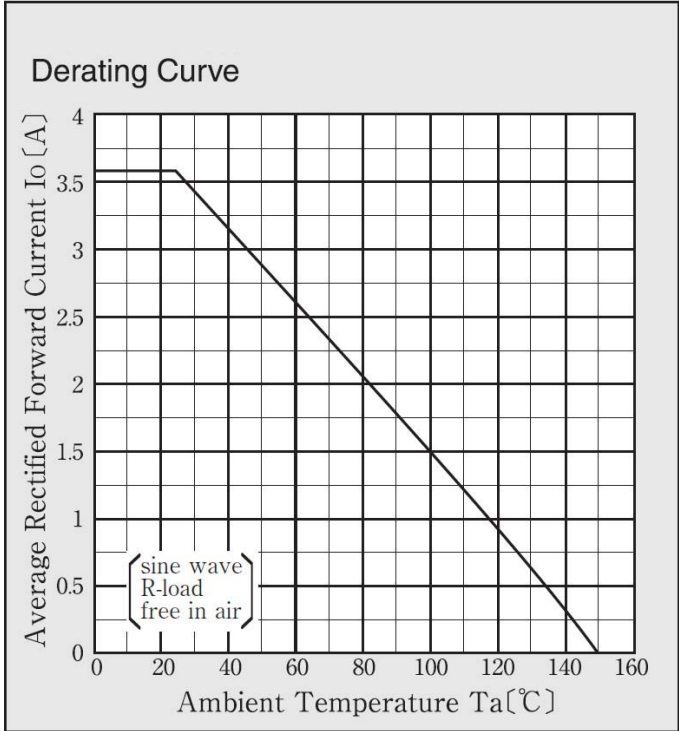


### Peak Surge Forward Current Capability



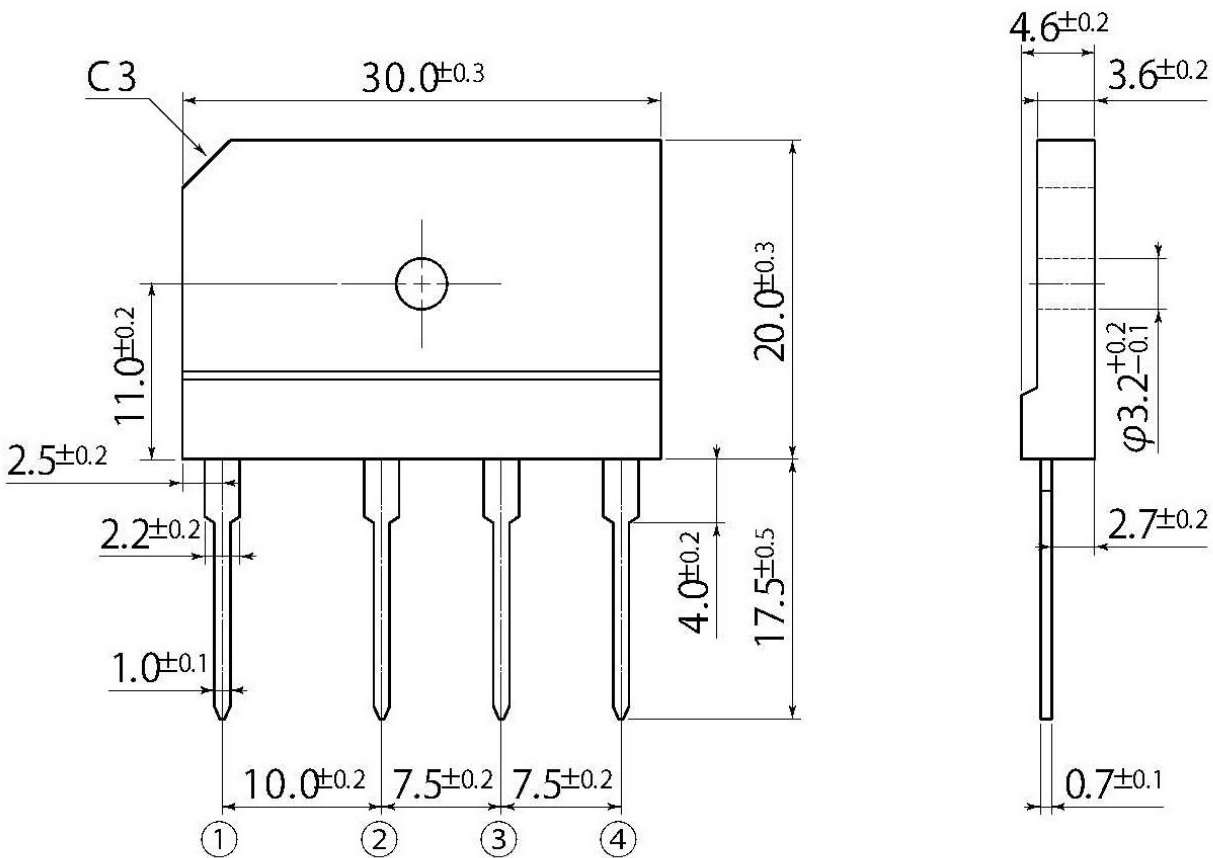
### Peak Surge Forward Current Capability





D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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