

# LN25XB60

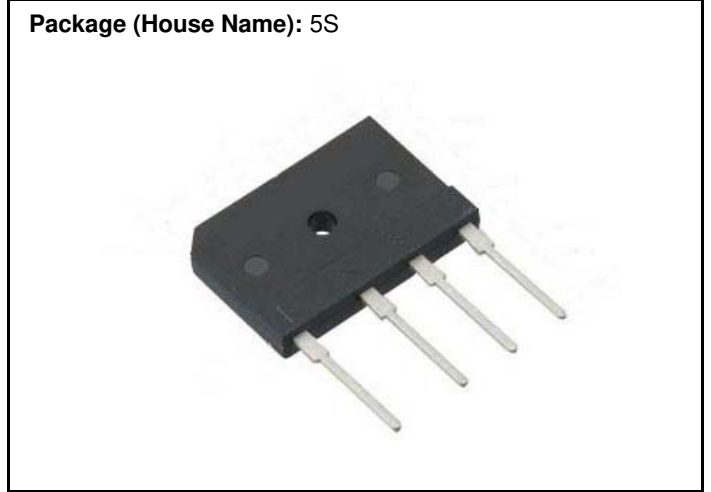
Bridge Diodes  
600V, 25A

### Feature

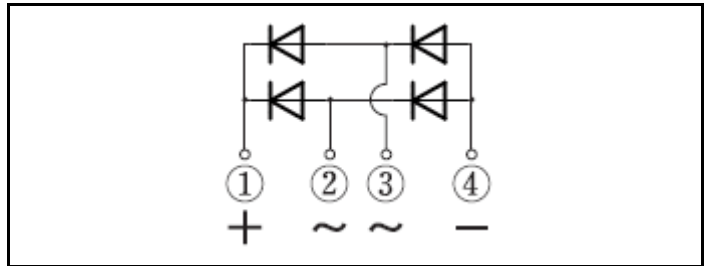
- Compact SIP
- Low Noise
- Low  $V_F$
- Pb free terminal
- RoHS:Yes

### 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	$T_j$		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, $T_C=85^\circ\text{C}$	25	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Without heatsink $T_a=25^\circ\text{C}$	3.4	A
Surge forward current	$I_{FSM}$	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	350	A
Current squared time	$I^2t$	$1\text{ms} \leq t < 10\text{ms}$ , $T_j=25^\circ\text{C}$ , per diode	300	$\text{A}^2\text{s}$
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	$\text{N}\cdot\text{m}$

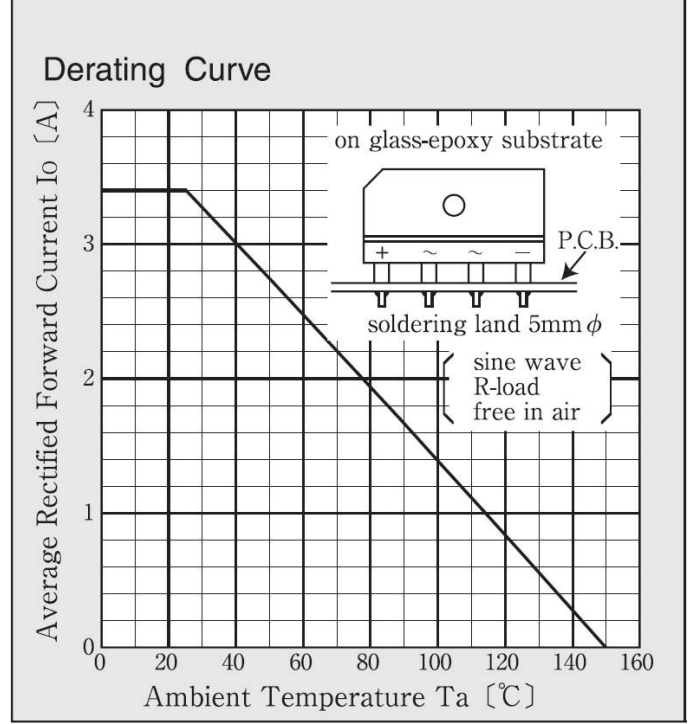
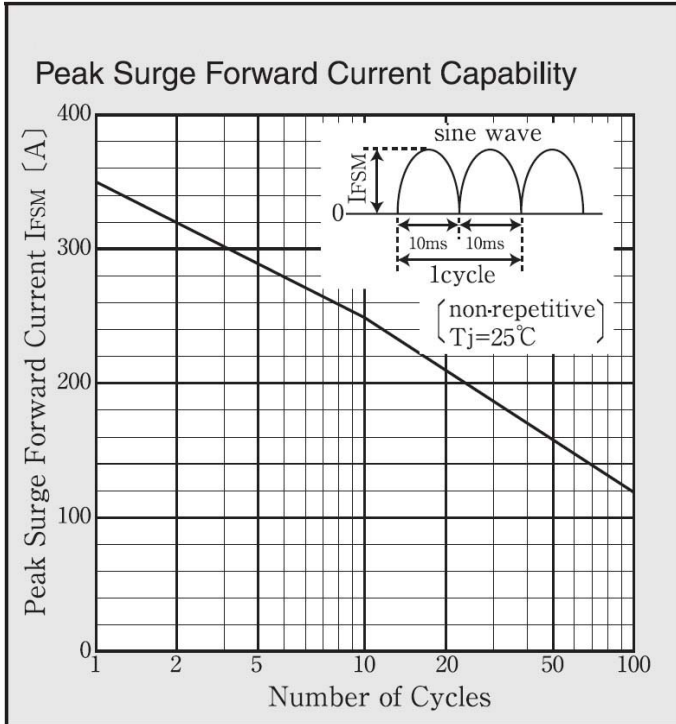
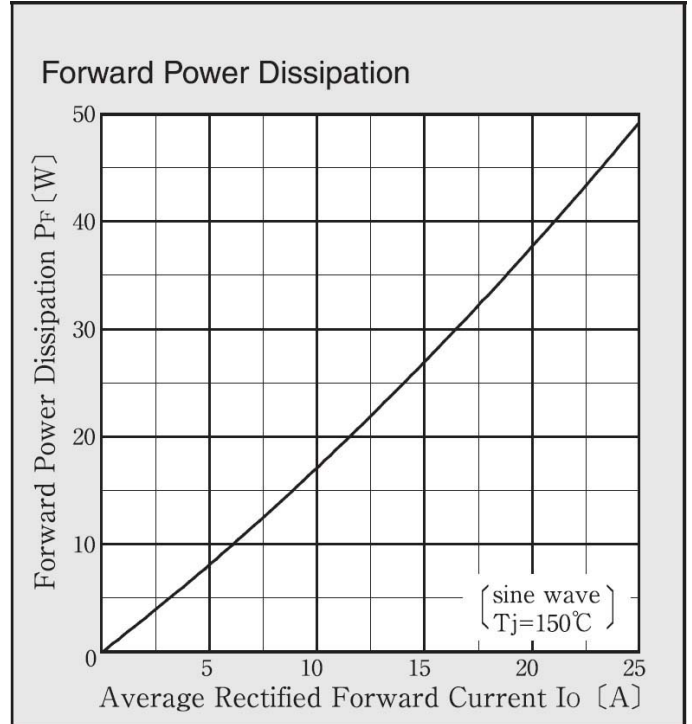
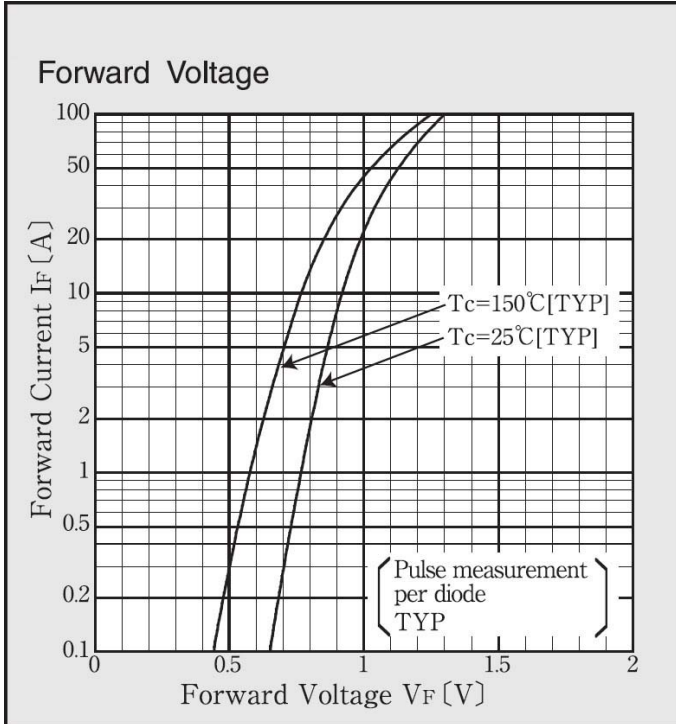
※ : See the original Specifications

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

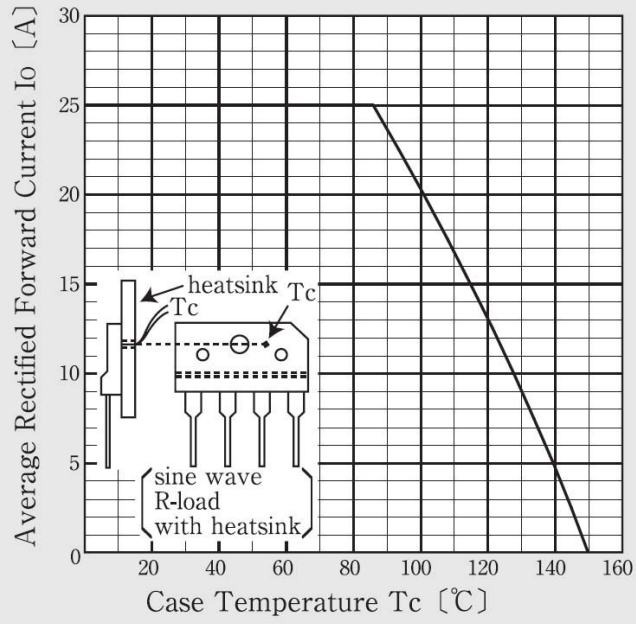
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	IF=12.5A, Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	VR=600V, Pulse measurement, per diode			10	$\mu$ A
Reverse recovery time	trr	IF=0.1A, IR=0.1A, per diode			5000	ns
Thermal resistance	Rth(j-c)	Junction to case, With heatsink			1.3	°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



### Derating Curve





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