

LN25XB60

Bridge Diodes  
600V, 25A

Feature

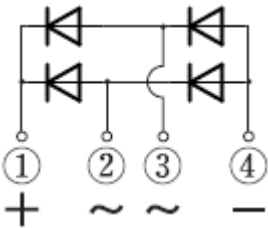
- Compact SIP
- Low Noise
- Low  $V_F$
- Pb free terminal
- RoHS:Yes

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 temperrature	$T_{stg}$		-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

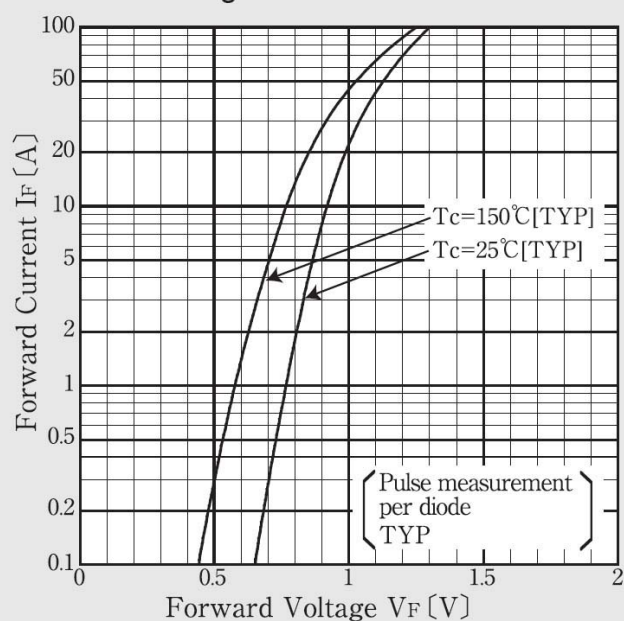
**Electrical Characteristics** (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	$V_F$	$I_F=12.5A$ , Pulse measurement, per diode			1.05	V
Reverse current	$I_R$	$V_R=600V$ , Pulse measurement, per diode			10	$\mu A$
Reverse recovery time	$t_{rr}$	$I_F=0.1A$ , $I_R=0.1A$ , per diode			5000	ns
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1.3	$^{\circ}C/W$
Thermal resistance	$R_{th(j-l)}$	Junction to lead, Without heatsink			5	$^{\circ}C/W$
Thermal resistance	$R_{th(j-a)}$	Junction to ambient, Without heatsink			23	$^{\circ}C/W$

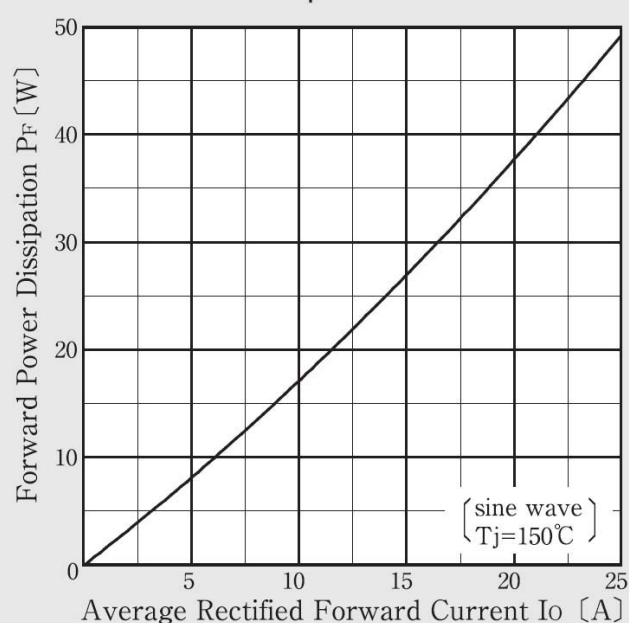
※ :See the original Specifications

## CHARACTERISTIC DIAGRAMS

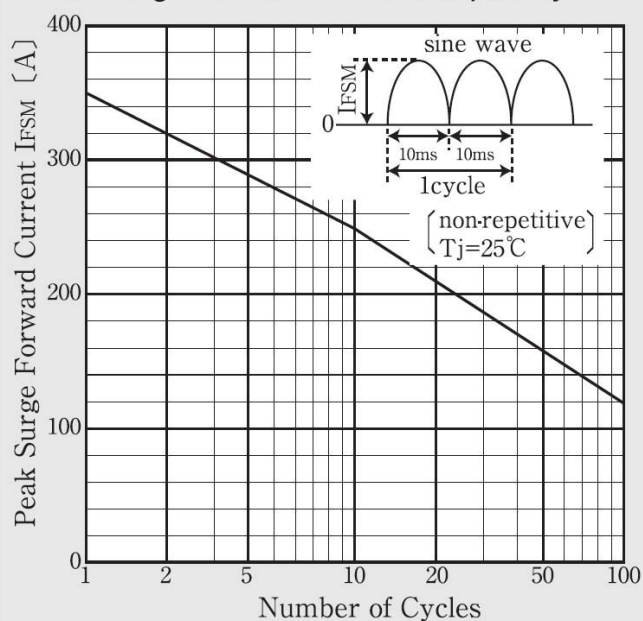
### Forward Voltage



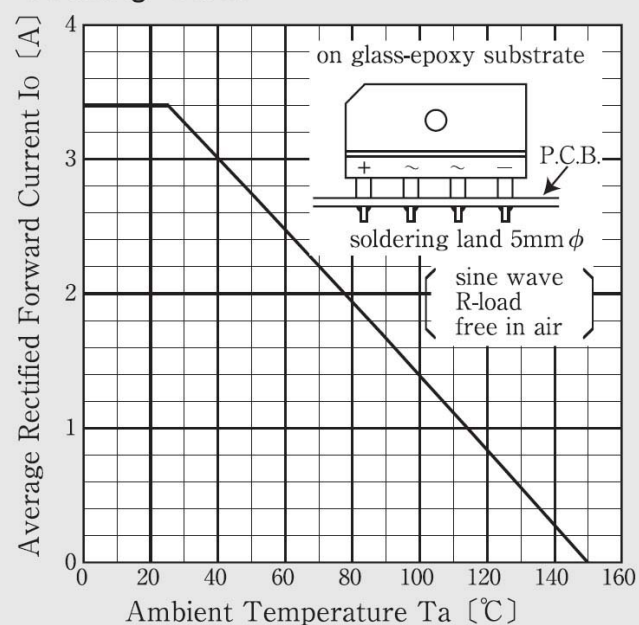
### Forward Power Dissipation

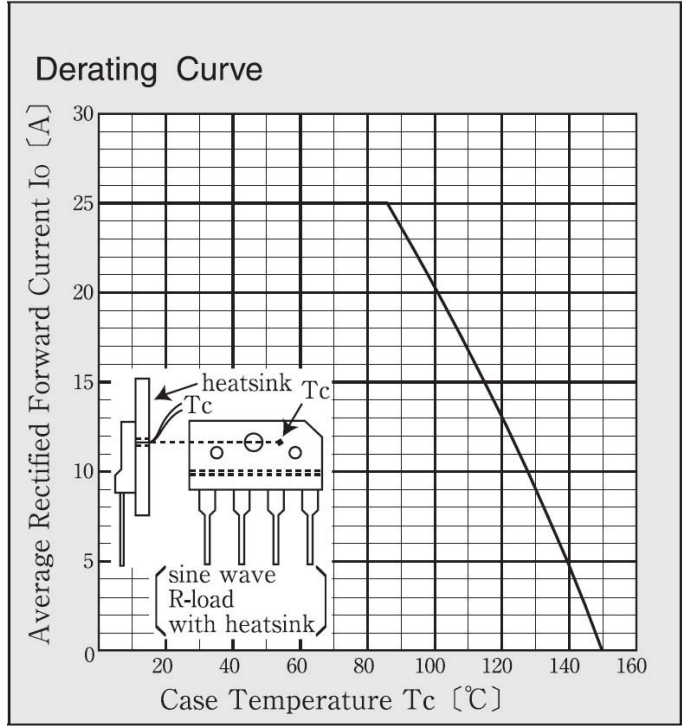


### Peak Surge Forward Current Capability



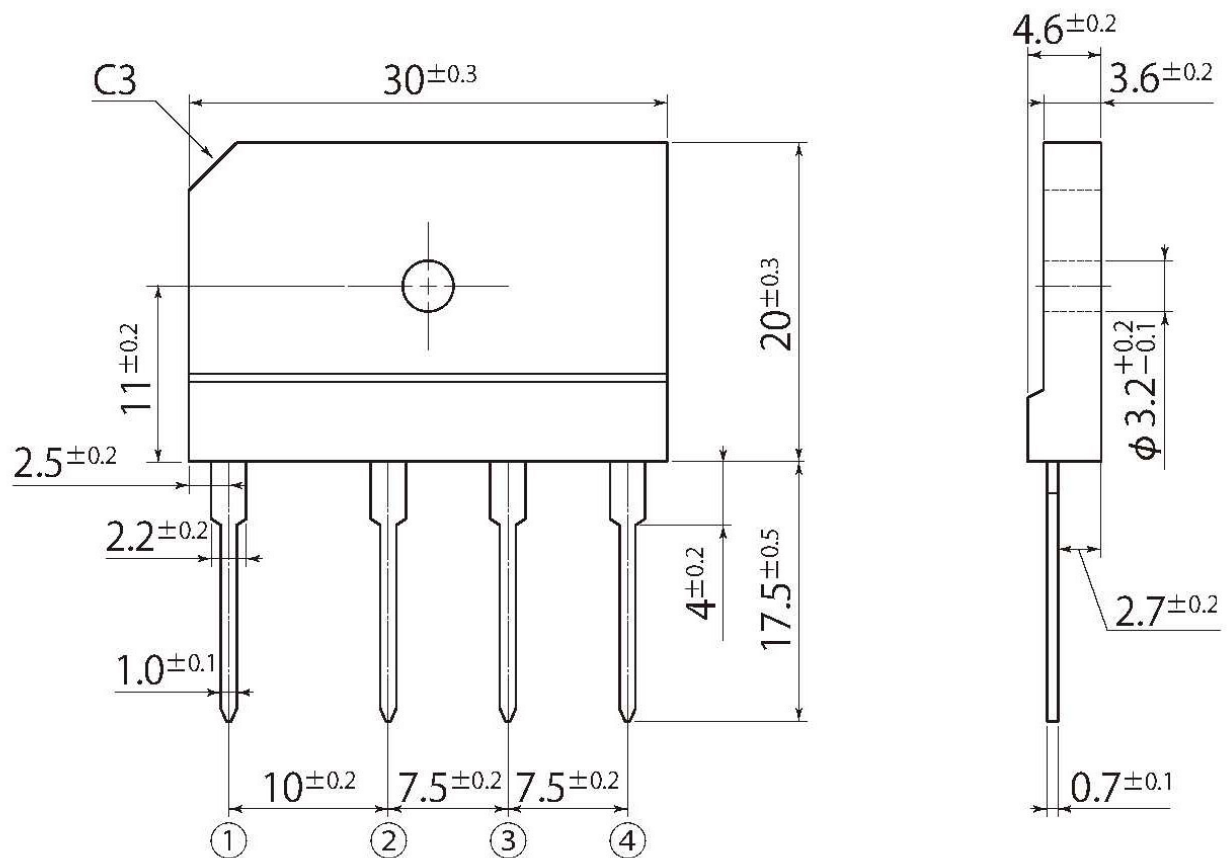
### Derating Curve





D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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