

S15VB60

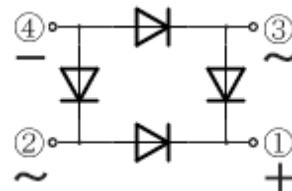
Bridge Diodes
600V, 15A

Feature

- Faston Terminal
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): S15VB

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

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-40 to 150	°C
Junction temperature	T_j		-40 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		600	V
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, With heatsink, $T_c=83^\circ\text{C}$	15	A
Average forward current	$I_F(AV)$	50Hz sine wave, Resistance load, Without heatsink, $T_a=40^\circ\text{C}$	4.5	A
Surge forward current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	200	A
Current squared time	I^2t	$2\text{ms} \leq t_p < 10\text{ms}$, $T_j=25^\circ\text{C}$, per diode	200	A^2s
Dielectric strength	V_{dis}	Terminals to case, AC 1 minute	2	kV
Mounting torque	T_{OR}	(Recommended torque : 1.0N·m)	2	$\text{N}\cdot\text{m}$

※ :See the original Specifications

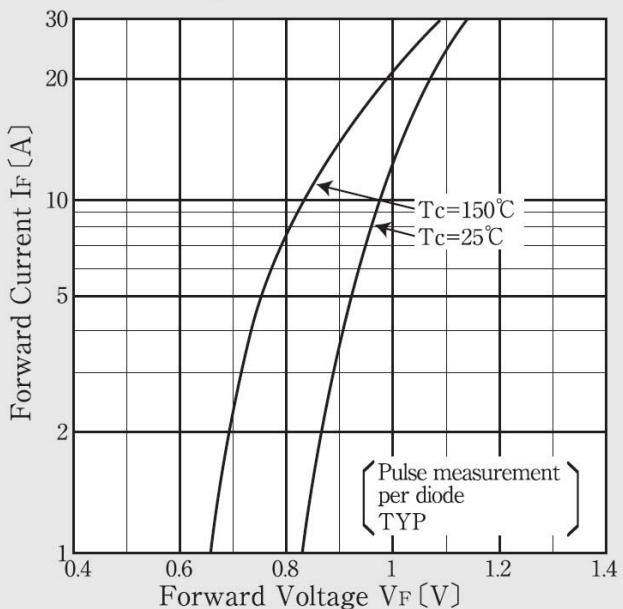
Electrical Characteristics (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V _F	IF=7.5A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=600V, Pulse measurement, per diode			10	µA
Thermal resistance	R _{th(j-c)}	Junction to case, With heatsink			2.3	°C/W

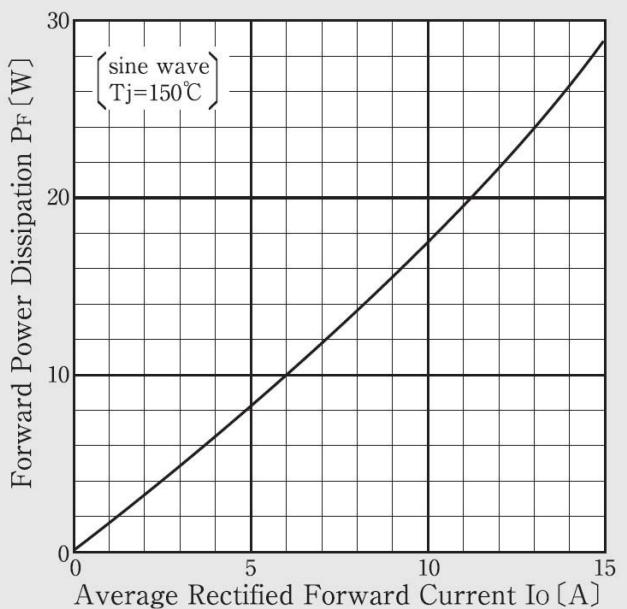
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

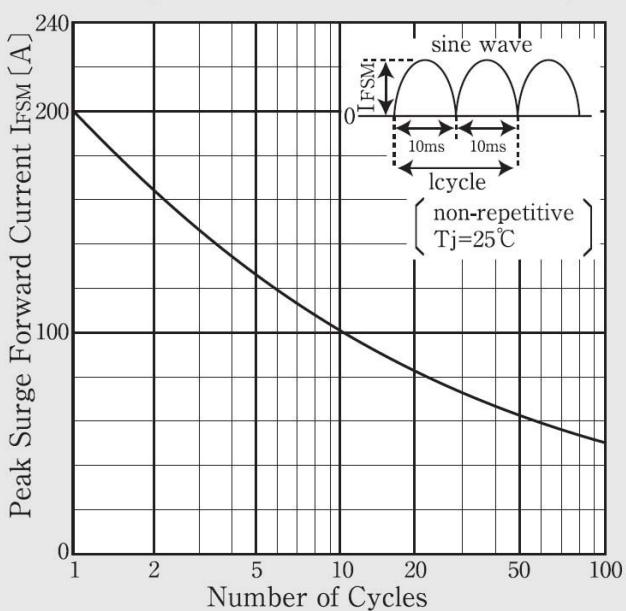
Forward Voltage



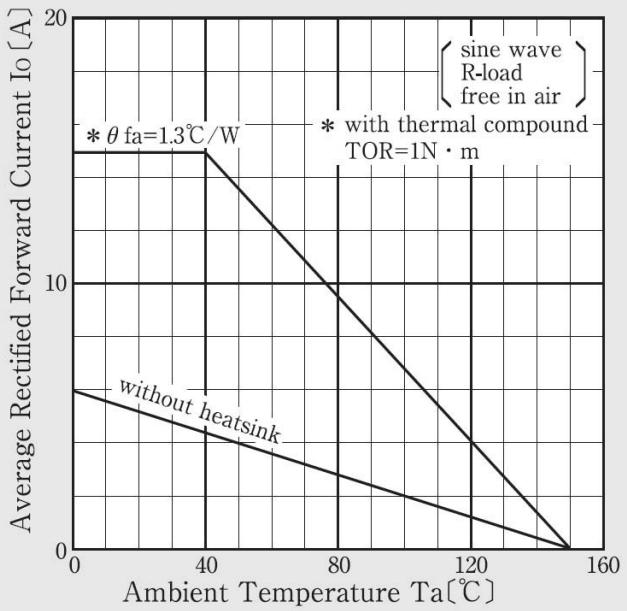
Forward Power Dissipation



Peak Surge Forward Current Capability



Derating Curve



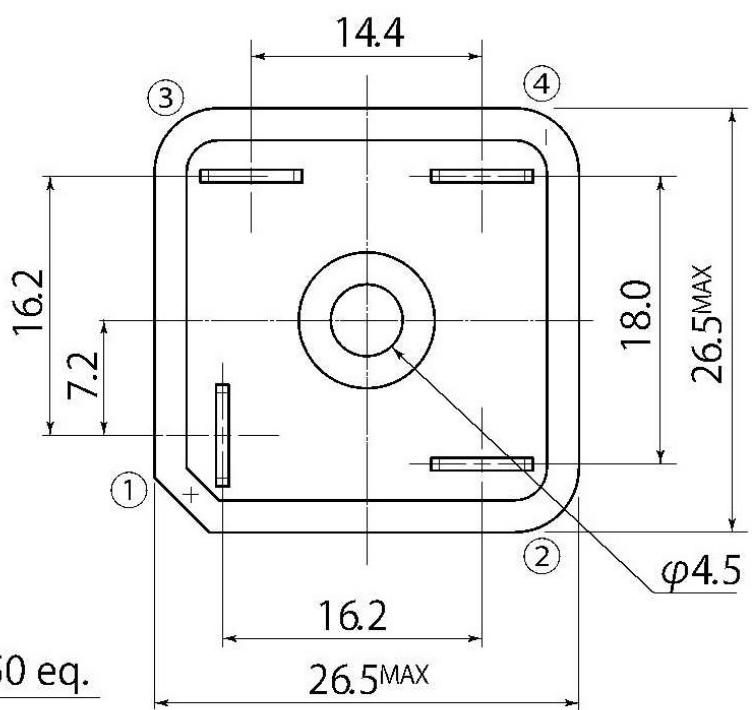
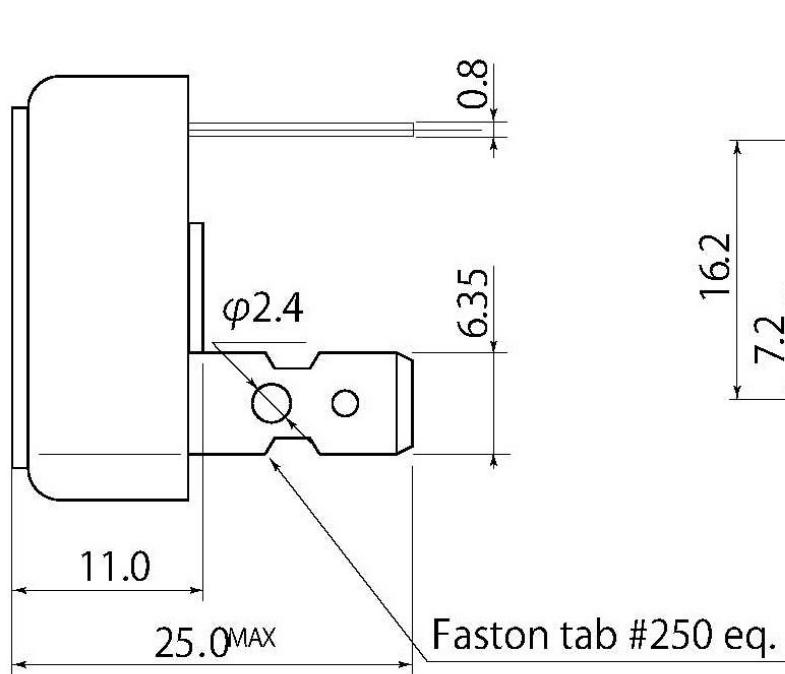
Outline Dimensions

unit:mm

scale: 2/1

E7

JEDEC Code	—
JEITA Code	—
House Name	S15VB



Notes

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【Special applications】

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

【Specific applications】

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