

D25XB60

Bridge Diodes
600V, 25A

Feature

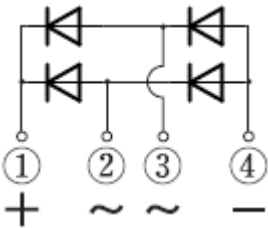
- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE

Package (House Name): 5S



Equivalent circuit



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

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-40 to 150	°C
Junction temperature	Tj		150	°C
Repetitive peak reverse voltage	VRRM		600	V
Average forward current	IF(AV)	50Hz sine wave, Resistance load, With heatsink, Tc=98°C	25	A
Average forward current	IF(AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=25°C	3.5	A
Surge forward current	IFSM	50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	350	A
Current squared time	I ² t	1ms≦t<10ms, Tj=25°C, per diode	300	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

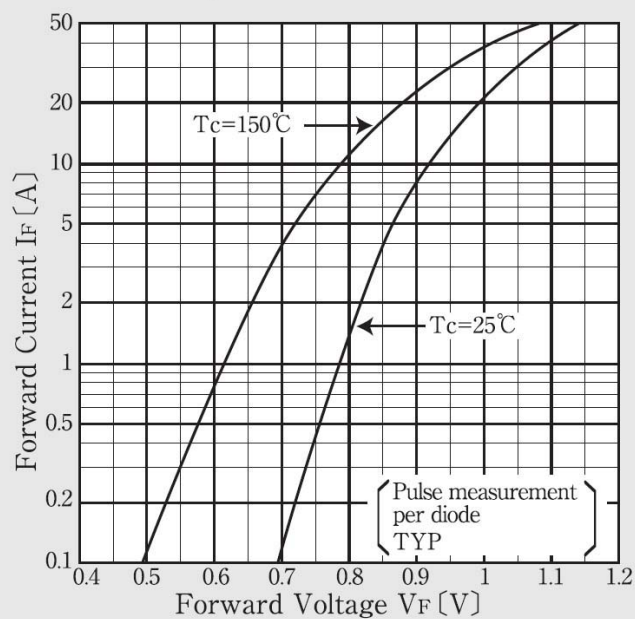
Electrical Characteristics (unless otherwise specified : Tc=25°C)

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	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case, With heatsink			1	$^{\circ}C/W$
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			22	$^{\circ}C/W$

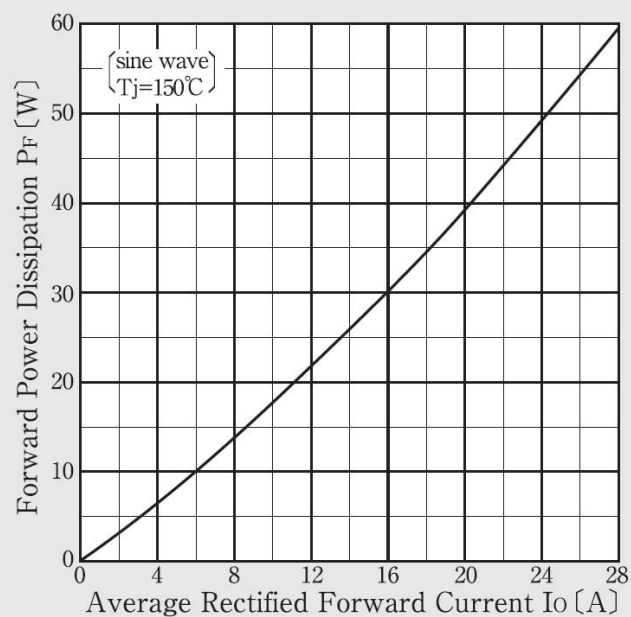
※ :See the original Specifications

CHARACTERISTIC DIAGRAMS

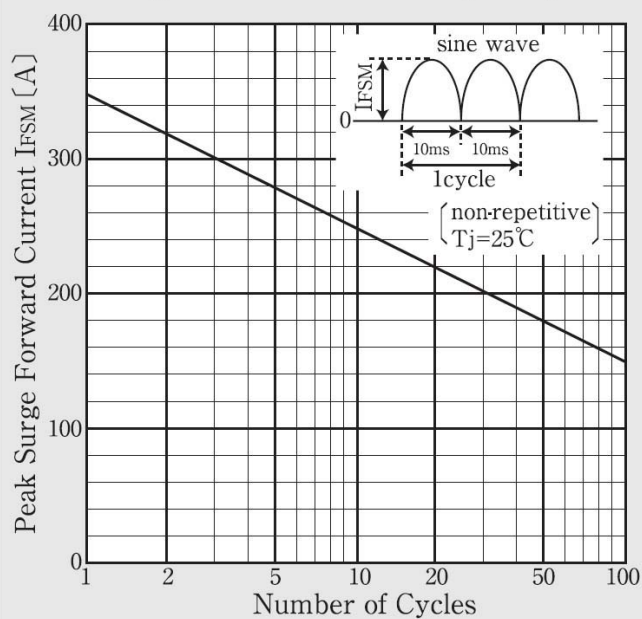
Forward Voltage



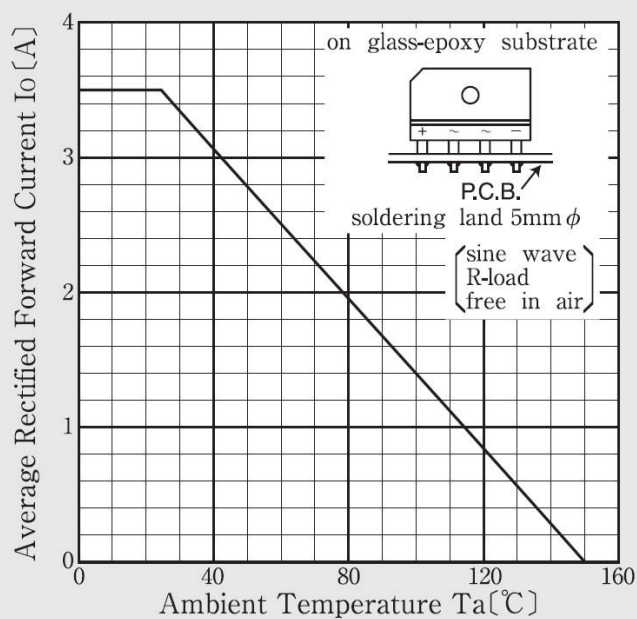
Forward Power Dissipation



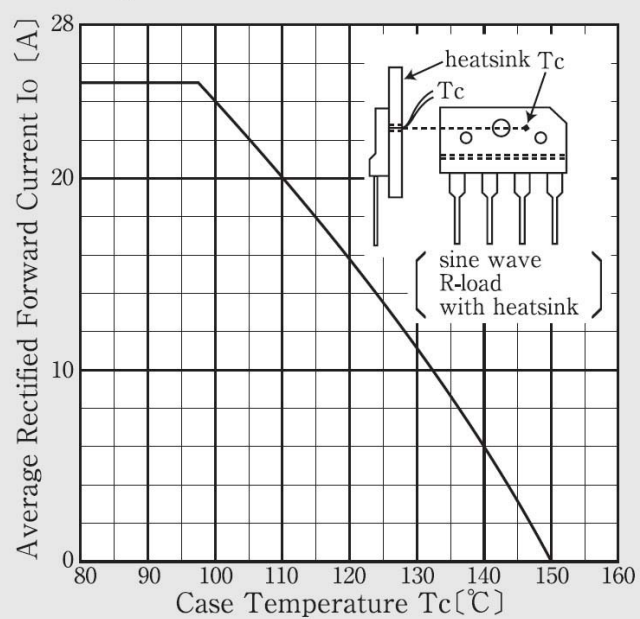
Peak Surge Forward Current Capability



Derating Curve

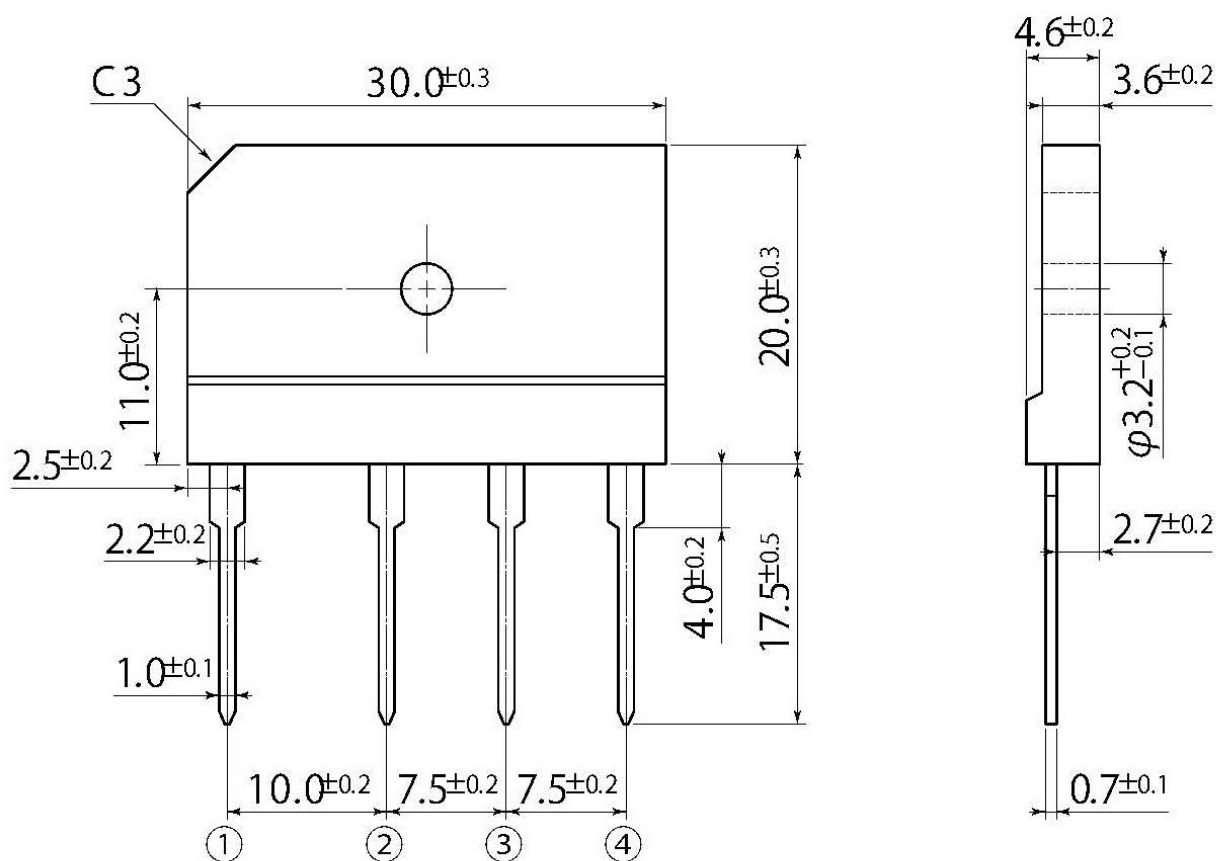


Derating Curve



D4

JEDEC Code	—
JEITA Code	—
House Name	5S



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

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How to Order

1. Indication of Spec Code when ordering

Please specify the Spec Code when ordering semiconductors.

For Spec Code, Please refer to as follows and "Ordering Quality and Packing Form"

Example Ordering THD type of S1YB60
S1ZB60-7101

2. Spec Code

The code specifies each packing form, lead forming and terminal plate material.

Please refer to "Ordering Quality and Packing Form"

Example 5 0 0 0

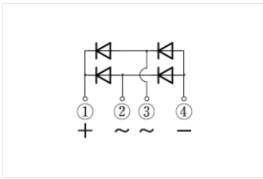
				Terminal forming
				0 : Straight terminal
				1 to 9 : Each number shows type of form
				Packing Form
				0 : Standard
				In case of surface mounting devices
				5, 6 : Small reel
				7 : Large reel
				In case of axial device
				6 : Lead length 52mm (T52)
				7 : Lead length 26mm (T26)
				Minimum packing unit
				0 : Bulk, tray or taping
				1 : Magazine
				5 : Tray
				6 : Packed (FTO-220 Package)
				Terminal plate material
				3 : Ni/Pd/Au, Sn-Ag
				4 : Ni, Ag
				5 : Sn-Ag-Cu, Sn, Ag, Sn-Cu
				6 : Sn
				7 : Sn-Bi

Bridge Diodes
D25XB60

Sales



Outline



Equivalent Circuit

DATASHEET

SPICEMODEL

Environmental Information

Specifications

Type	-
V_{RRM}	600V
$I_T(AV)$	25A
I_{FSM}	350A
$V_F(max.)$	1.05V

Package (House Name)	5S
Package (JEDEC Code)	-
Package (JEITA Code)	-
Type No.	D25XB60
Spec Code	7000
Order Quantity	50

Spec code shown is the standard.
Ask sales contact for lead forming availability.

Features

- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

- Technical Data
- Precaution
- FAQ
- Board Design Mounting Proccessing
- Quality Assurance System Diagram
- Product Name Notation
- Specification Code Order Quantity Packing Form List