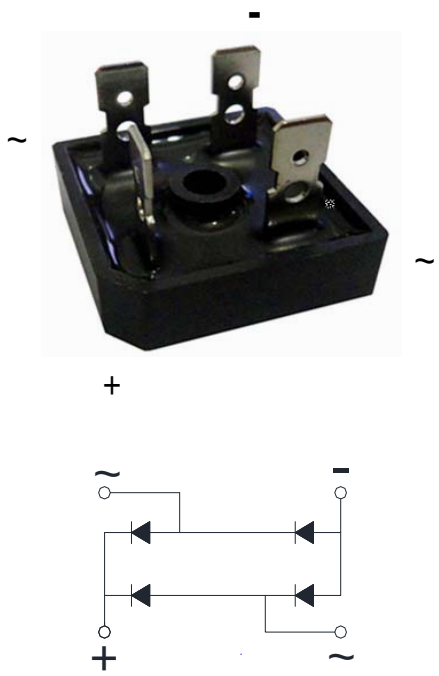
Bridge Rectifiers



Features

- UL recognition, file #E230084
- Universal 3-way terminals snap-on wire wrap-around or PCB mounting
- Glass passivated chip junction
- High surge current capability
- Low thermal resistance
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package**: S25VB
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYM ξ ´ · ŋ	SY T	
@8．3ms，Half-sine wave，1 cycle，T j =25	I_{FSM}	A	400

Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			800
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2S	664
Storage temperature	T_{stg}		-55 ~ +150
Junction temperature	Tj		-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	V_{dis}	KV	2.5
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=12.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	5						
			T_j =125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	145						

■Thermal Characteristics T_a=25 Unless otherwise specified

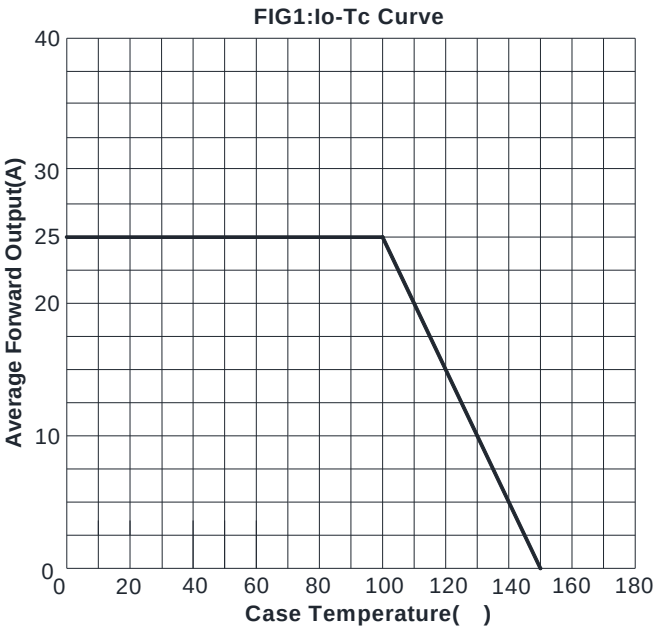
PARAMETER		SYMBOL	UNIT	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	1.5						

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT (g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S25VB10 ~ S25VB120	A1	Approximate 20	50	50	500	Paper Box

■ Characteristics (Typical)



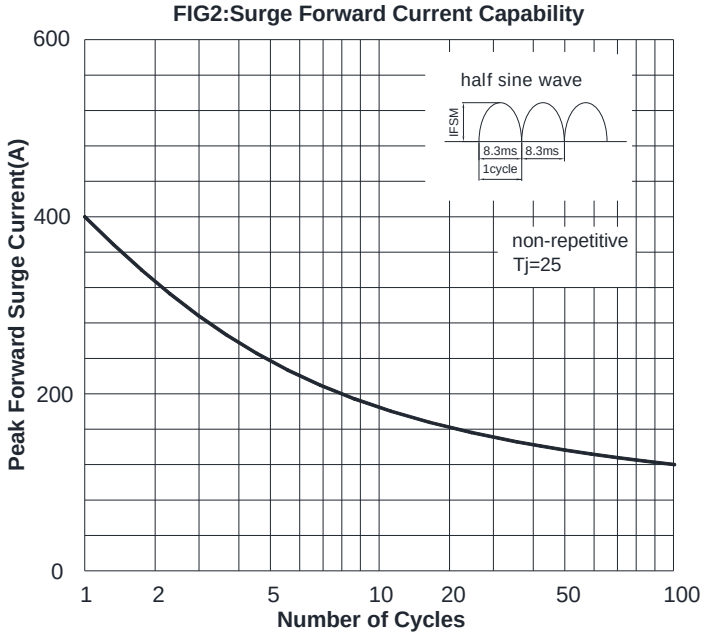


FIG3: Typical Forward Voltage

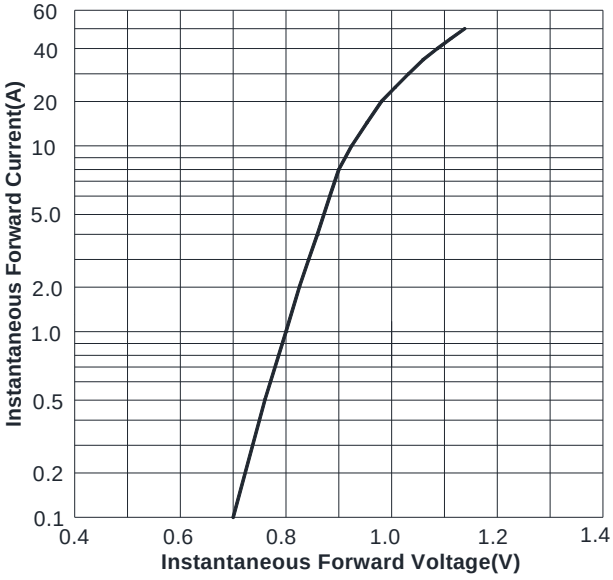
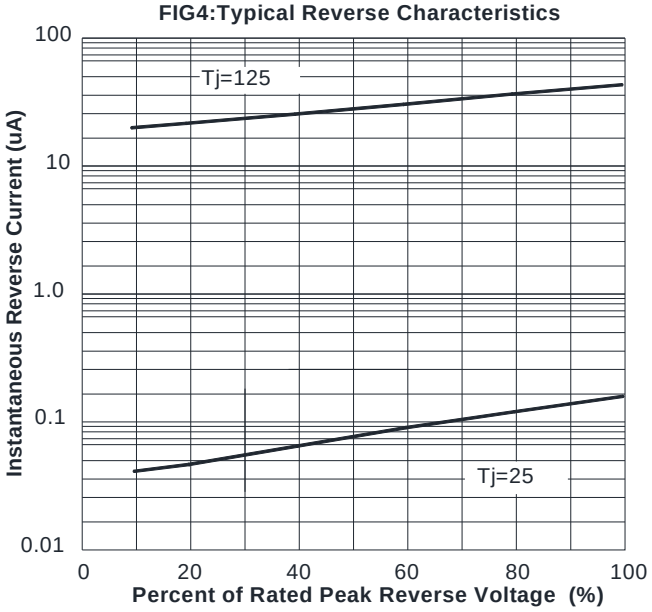
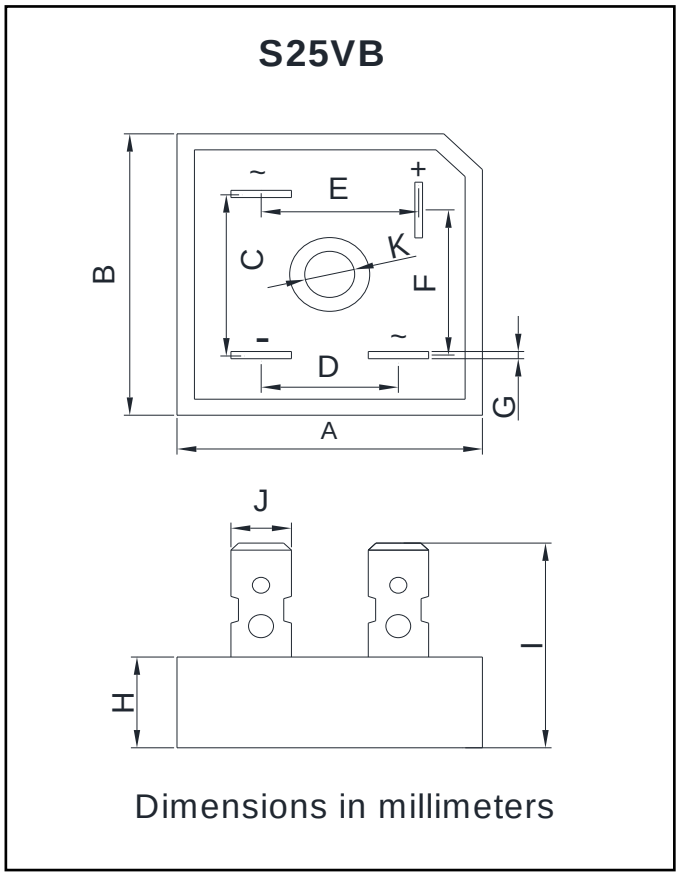


FIG4:Typical Reverse Characteristics



■ Outline Dimensions



S25VB		
Dim	**Min**	**Max**
A	31.1	32.1
B	31.1	32.1
C	17.6	18.6
D	13.7	14.7
E	15.8	16.8
F	15.8	16.8
G	0.75	0.85
H	9.5	10.5
I	/	25
J	6.2	6.4
K	4.5	5.5

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.