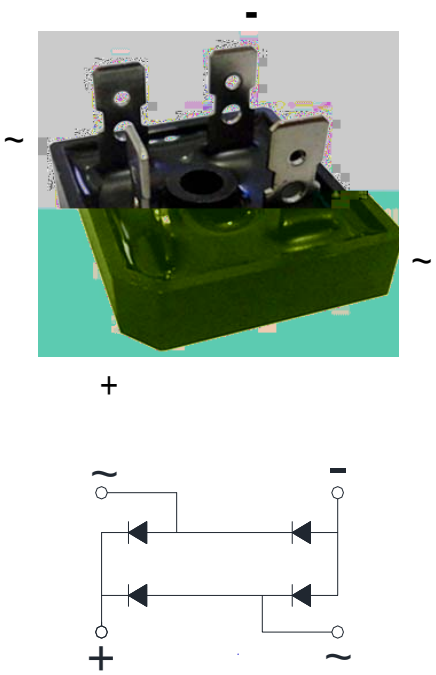
Bridge Rectifiers



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	SYMcK								
Maximum Repetitive Peak Reverse Voltage	**VRRM**	**V**	**100**	**200**	**400**	**600**	**800**	**1000**	**1200**
Maximum RMS Voltage	**VRMS**	**V**	**70**	**140**	**280**	**420**	**560**	**700**	**840**
Maximum DC blocking Voltage	**VDC**	**V**	**100**	**200**	**400**	**600**	**800**	**1000**	**1200**
Average rectified output current @60Hz sine wave, R-load, Tc=85	IO	A	35						
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25	IFSM	A	500						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			1000						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2S	1038						
Storage temperature	Tstg		-55 ~ +150						
Junction temperature	Tj		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	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	S35VB10	S35VB20	S35VB40	S35VB60	S35VB80	S35VB100	S35VB120
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=17.5A	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	190						

■Thermal Characteristics T_a=25 Unless otherwise specified

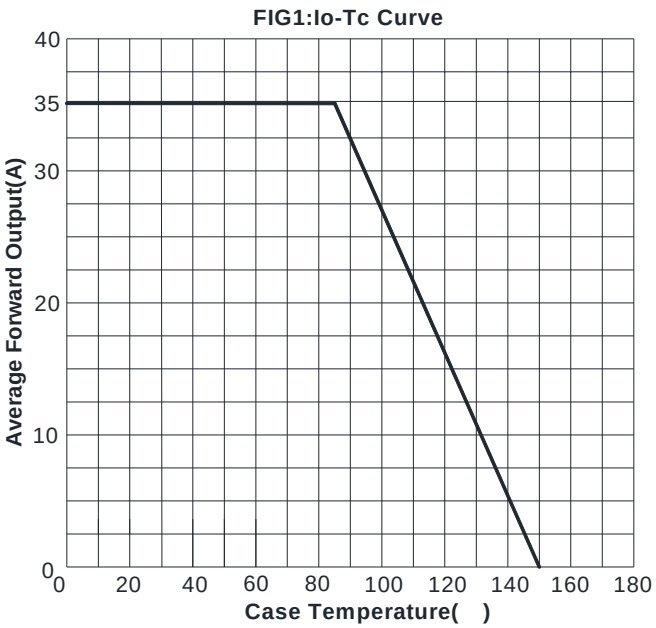
PARAMETER		SYMBOL	UNIT	S35VB10	S35VB20	S35VB40	S35VB60	S35VB80	S35VB100	S35VB120
Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	1.0						

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
S35VB10 ~ S35VB120	A1	Approximate 20	50	50	500	Paper Box

■ Characteristics (Typical)



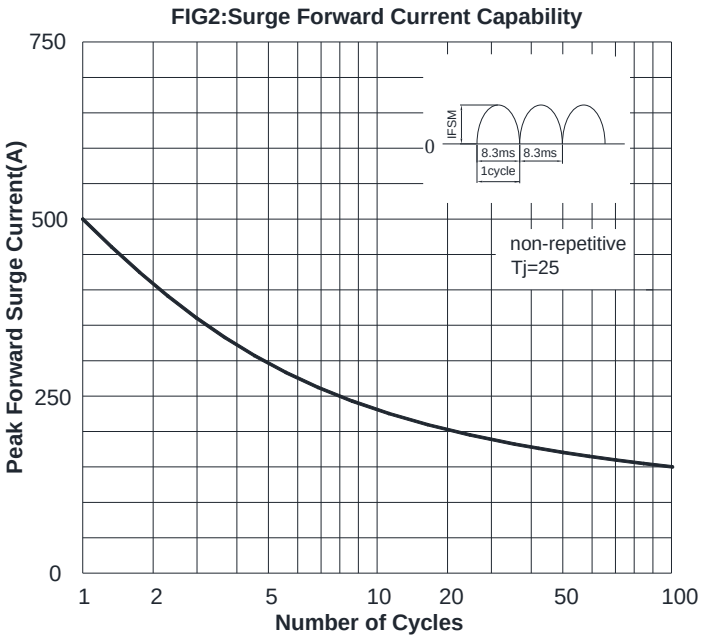


FIG3: Typical Forward Voltage

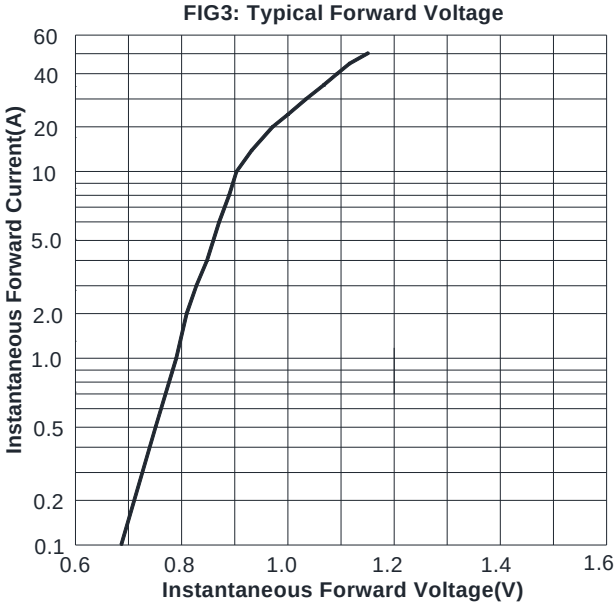
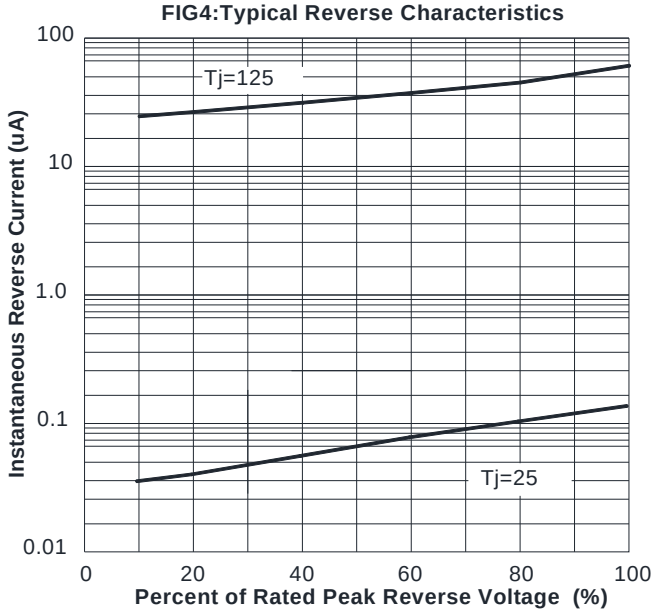
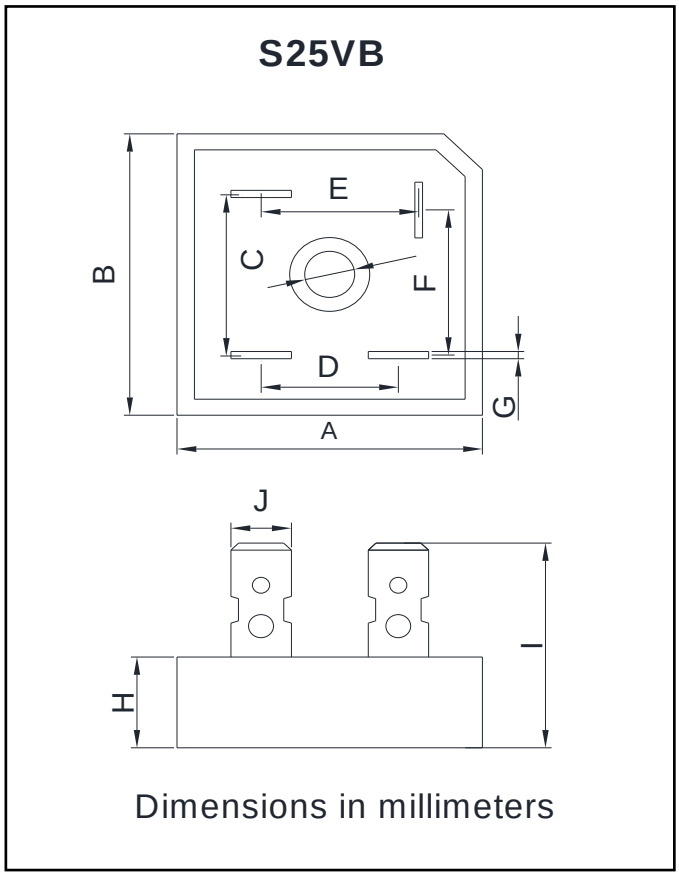


FIG4:Typical Reverse Characteristics



■ 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

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