

Single Phase Glass Passivated Bridge Rectifier

V_{RRM} - 800 to 1600V

I_(AV) - 75A

FEATURES

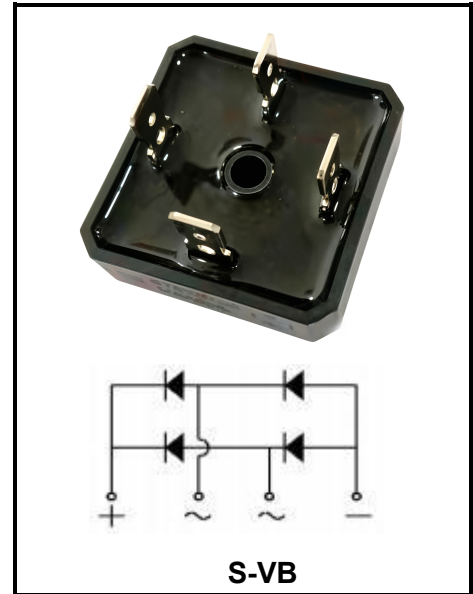
- ◆ Glass passivated chip
- ◆ Low reverse leakage current
- ◆ High surge current capability

APPLICATIONS

- ◆ Electric welder
- ◆ Industrial power supply
- ◆ Inverter
- ◆ Uninterruptible power supply

MECHANICAL DATA

- ◆ Case: S-VB
- ◆ Polarity: Polarity symbols being marked on body
- ◆ Mounting torque: 12.0kgf.cm max
- ◆ Weight: About 30 grams



Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER		SYMBOL	S75VB80	S75VB100	S75VB120	S75VB140	S75VB160	UNIT
Maximum recurrent peak reverse voltage		V _{RRM}	800	1000	1200	1400	1600	V
Average rectified output current	with heatsink, T _c =85°C	I _(AV)	75					A
Peak surge forward current, 8.3ms single half Sine-wave superimposed on rated load		I _{FSM}	700					A
Rating for fusing, 1ms<t<8.3ms T _j =25°C, Rating of per diode		I ² t	2033					A ² s
Dielectric strength, terminals to case AC 1 minute		V _{dis}	2.5					KV
Peak Forward Voltage I _F =37.5A		V _F	1.1					V
Peak Reverse Current V _R =V _{RRM} , Pulse measurement Rating of per diode	T _j =25°C	I _R	5					μA
	T _j =125°C		500					
Junction to ambient thermal resistance, without heatsink		R _{θJA}	18					°C/W
Junction to case thermal resistance, with heatsink		R _{θJC}	0.8					°C/W
Junction temperature		T _J	-55~+150					°C
Storage temperature		T _{STG}	-55~+150					°C

Characteristic Curve

FIG 1 .Derating Curve For Output Rectified Current

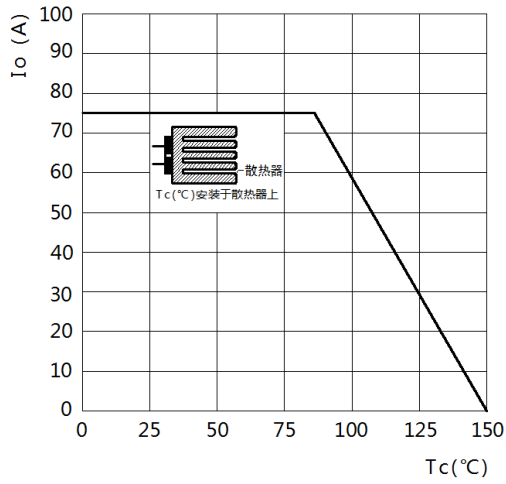


FIG2 .Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

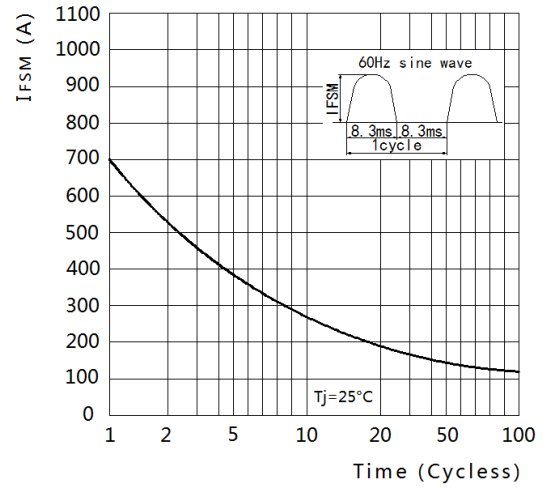


FIG3.Typical Reverse Characteristics Per Bridge Element

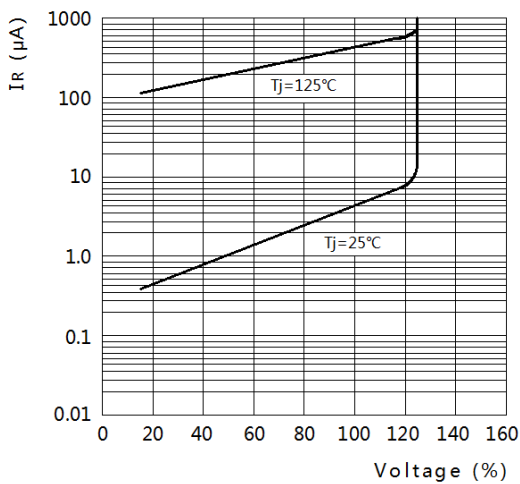
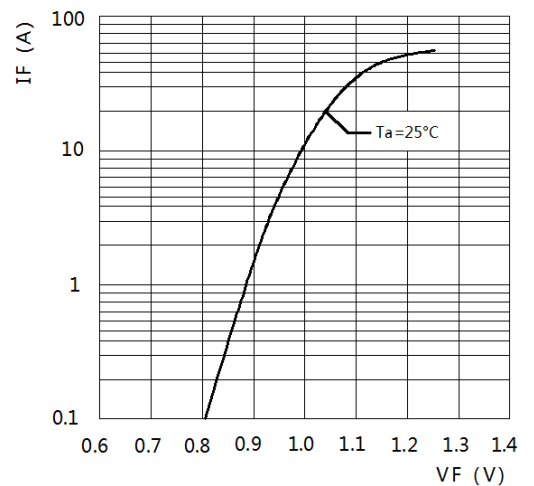
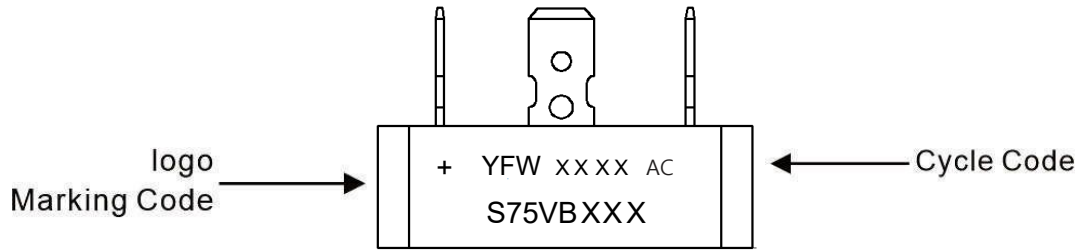


FIG4.Typical Forward Characteristics Per Bridge Element



Marking Diagram



Ordering information

Package	Packing Description	Packing Quantity
S-VB	bulk	50PCS/Box 500PCS/Carton

Package Dimensions

S-VB

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	36.00	37.00	1.41	1.45
B	12.00	13.00	0.47	0.51
C	4.50	5.50	0.17	0.21
D	11.60	12.60	0.45	0.49
E	24.30	25.50	0.95	1.00
F	36.00	37.00	1.41	1.45
G	12.00	13.00	0.47	0.51
H	23.50	24.50	0.92	0.96
I	22.00	23.00	0.86	0.90
J	11.30	12.30	0.44	0.48
K	6.00	6.50	0.23	0.25
L	0.60	1.00	0.02	0.03

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