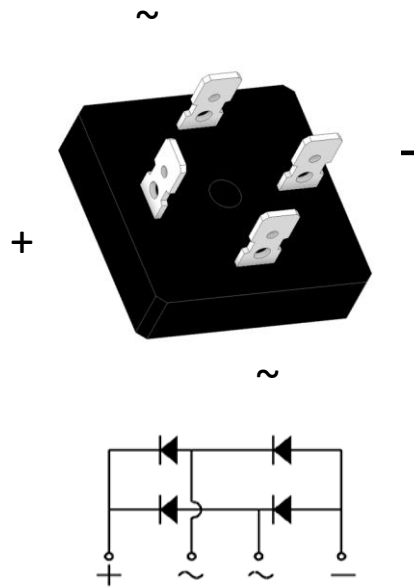


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for Server、Frequency converter、Industrial power supply.

Mechanical Data

- **Package:** S75VB
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Nickel plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S75VB100
Device marking code			S75VB100
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1000
Maximum RMS Voltage	VRMS	V	700
Maximum DC blocking Voltage	VDC	V	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =85°C IO	A	75
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	A	700
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	2034
Storage temperature	Tstg	°C	-55 ~ +150
Junction temperature	Tj	°C	-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5
Mounting torque @Recommend torque: 5kg·cm	Tor	kg·cm	8



S75VB100

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S75VB100
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =37.5A	1.1
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	5
			T _j =125°C	500
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	400

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	S75VB100
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	18.0
	Between junction and case, With heatsink	R _{θJ-C}		0.8

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

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S75VB100	A1	Approximate 30	50	50	500	Paper Box

■ Characteristics (Typical)

FIG1:I_o-T_c Curve

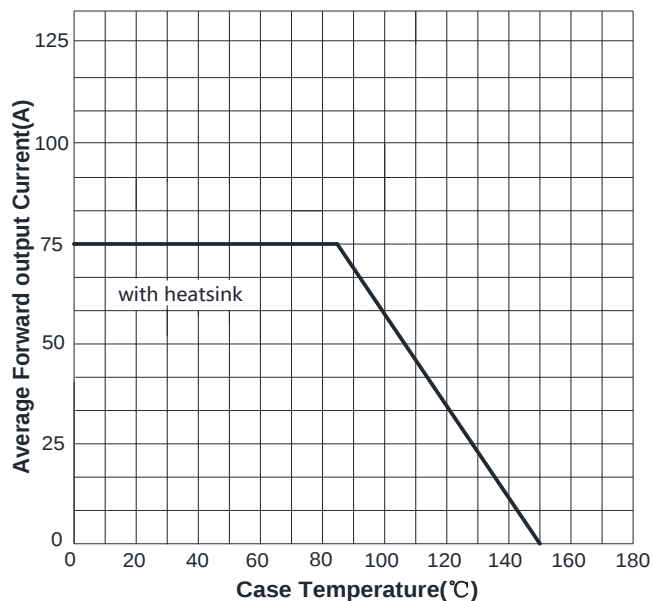


FIG2:Surge Forward Current Capability

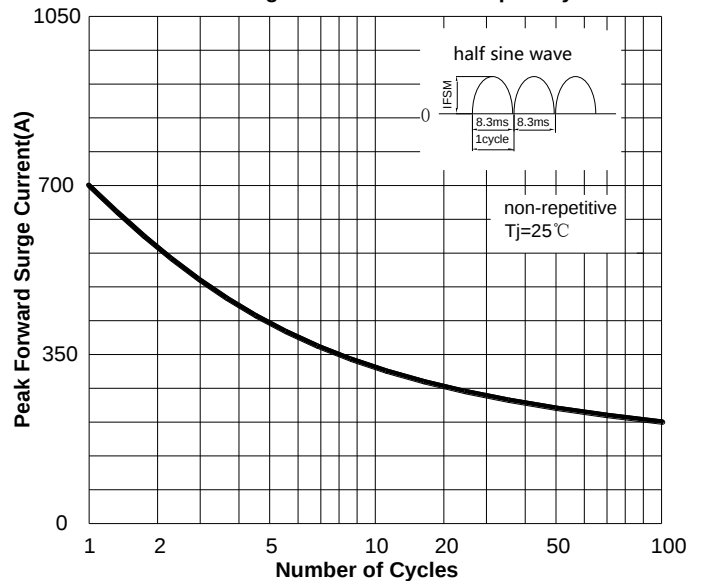


FIG3: Typical Forward Voltage

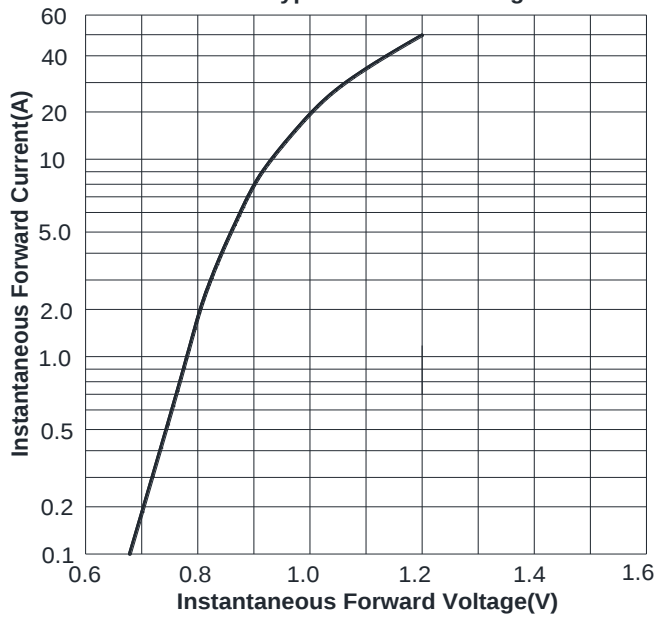
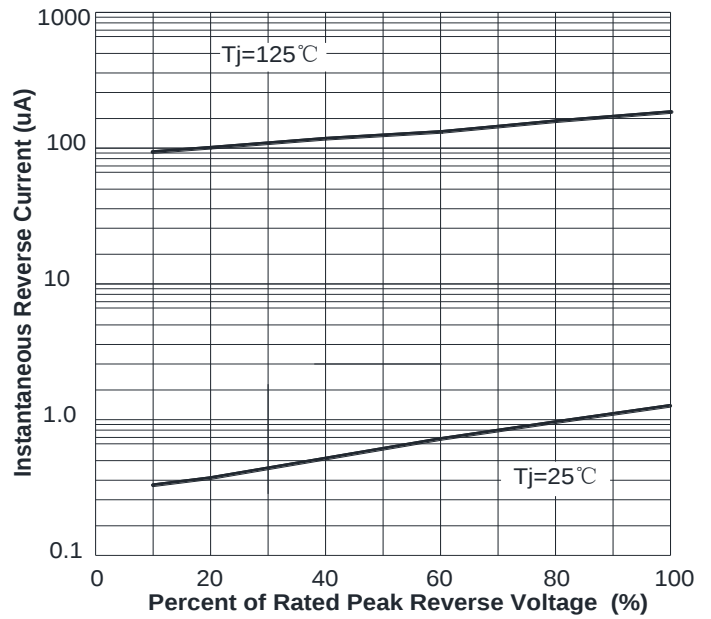
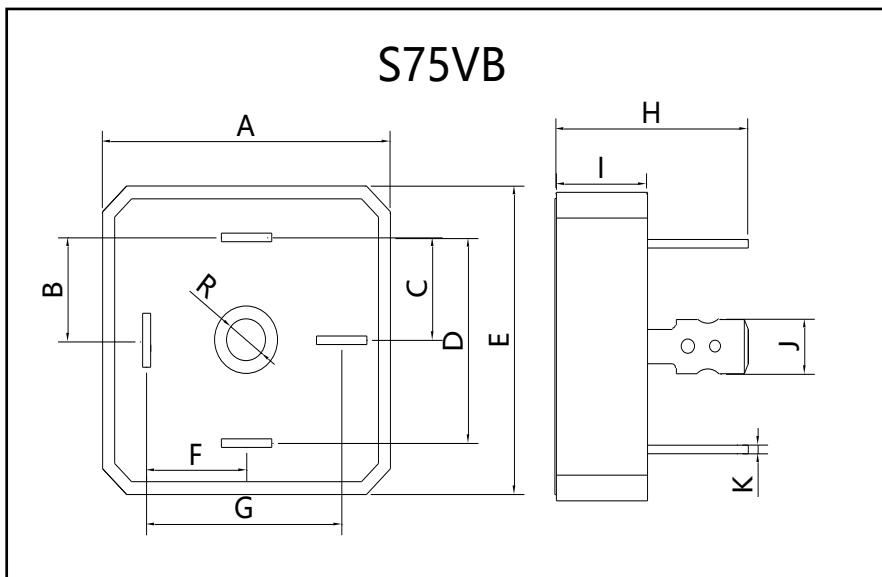


FIG4: Typical Reverse Characteristics



■ Outline Dimensions



S75VB		
Dim	Min	Max
A	35.5	36.5
B	12.0	13.0
C	11.7	12.7
D	24.5	25.5
E	35.5	36.5
F	12.1	13.1
G	23.7	24.7
H	22.0	24.0
I	11.2	12.2
J	6.05	6.55
K	0.6	1.0
R	4.5	5.5



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