

Bridge Rectifiers

Features

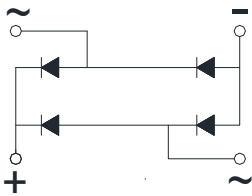
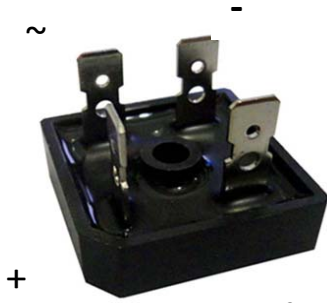
- UL recognition file number E230084
- High-Reliability
- Heat Resistance
- Low IR
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Device marking code			S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Repetitive Peak Reverse Voltage	V _{RRM}	V	100	200	400	600	800	1000	1200
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink T _c =85°C	I _O	A	25						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C	I _{FSM}	A	400						
Current Squared Time @1ms≤t<8.3ms T _j =25°C, Rating of per diode	I ² t	A ² S	660						
Storage Temperature	T _{stg}	°C	-55~+150						
Junction Temperature	T _j	°C	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	TOR	kgcm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =12.5A	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	10						

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

PARAMETER	SYMBOL	UNIT	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	S25VB120
Thermal Resistance Between junction and case, With heatsink	R _{θ J-C}	°C/W	1.5						



S25VB10 THRU S25VB120

Ordering Information (Example)

PREFERRED 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)

FIG1:Io-Tc Curve

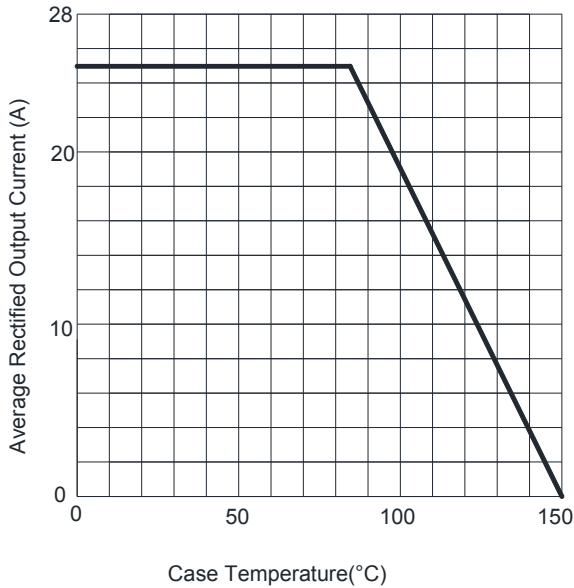


FIG2: Surge Forward Current Capability

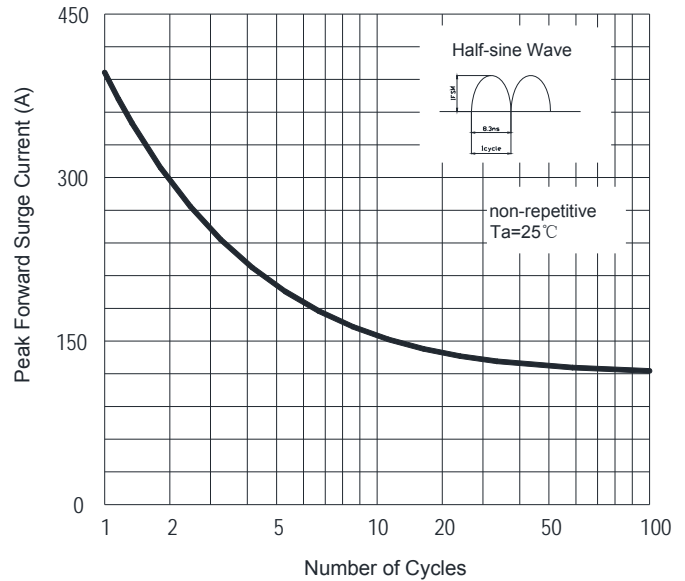


FIG3: Instantaneous Forward Voltage

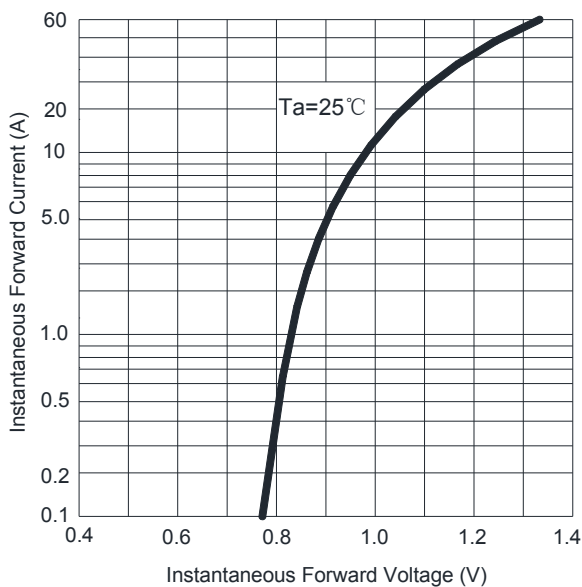
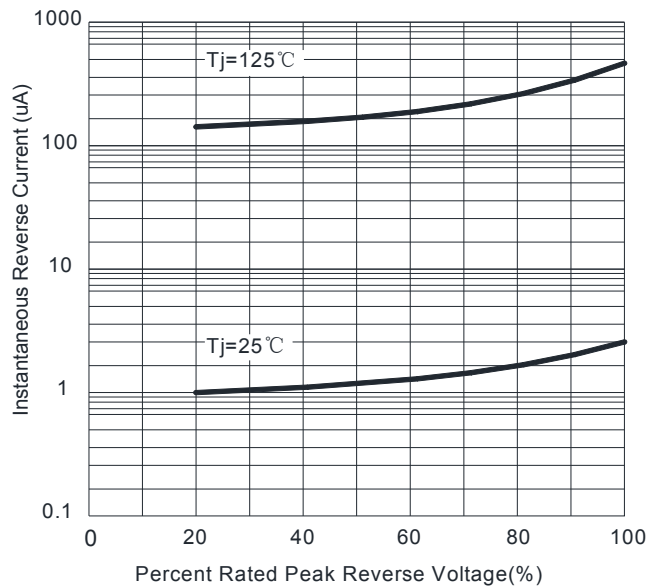


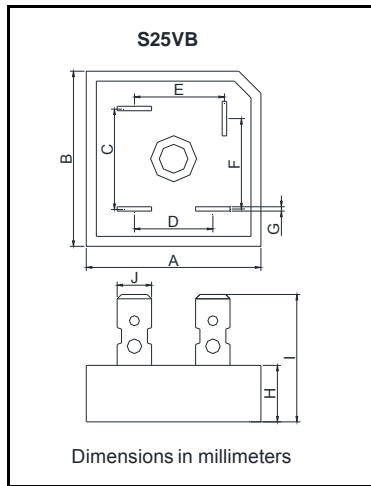
FIG4: Typical Reverse Characteristics





S25VB10 THRU S25VB120

■ 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



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