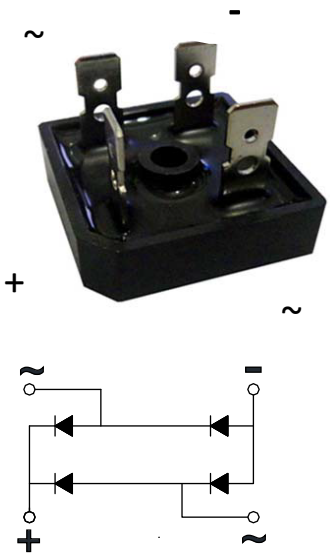
Bridge Rectifiers
S35VB10 Through S35VB120

S25VB



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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	S35VB10	S35VB20	S35VB40	S35VB60	S35VB80	S35VB100	S35VB120
Device marking code			S35VB10	S35VB20	S35VB40	S35VB60	S35VB80	S35VB100	S35VB120
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 Tc=85℃	IO	A	35						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T_a=25℃	I_{FSM}	A	500						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I^2t	A^2S	1040						
Storage Temperature	Tstg	℃	-55~+150						
Junction Temperature	Tj	℃	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V_{dis}	KV	2.5						
Mounting Torque	TOR	kg·cm	10						

ELECTRICAL CHARACTERISTICS (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	S35VB10	S35VB20	S35VB40	S35VB60	S35VB80	S35VB100	S35VB120
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=17.5A	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	$V_{RM}=V_{RRM}$	10						

THERMAL CHARACTERISTICS (Ta=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						

■ PACKAGING INFORMATION

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)

FIG1:Io-Tc Curve

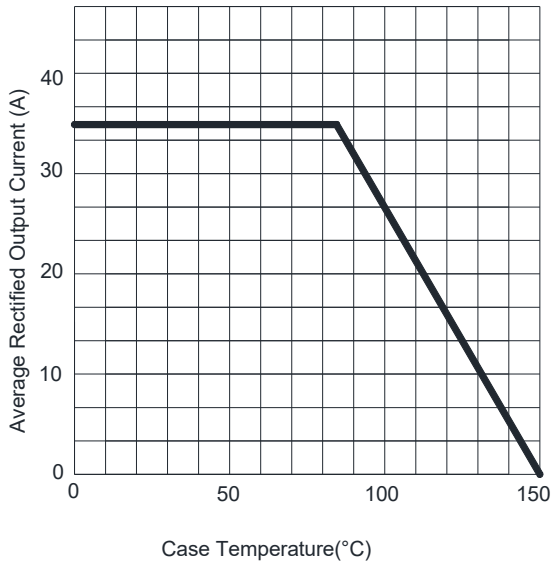


FIG2:Surge Forward Current Capability

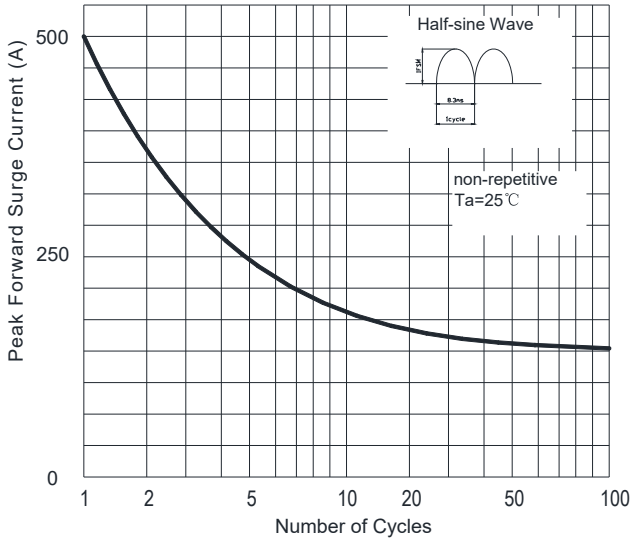


FIG3:Instantaneous Forward Voltage

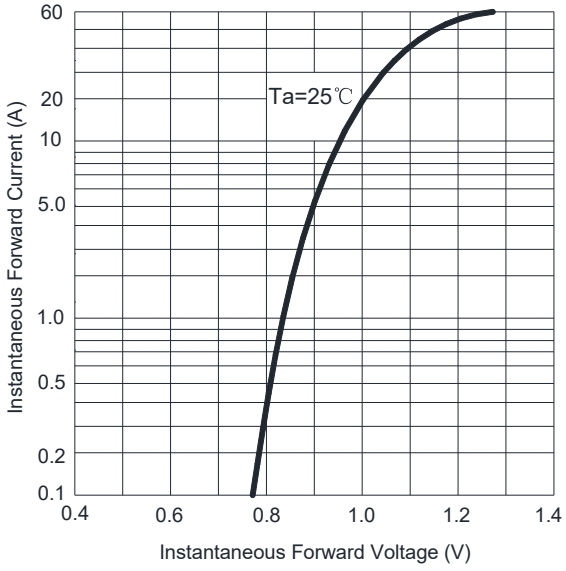
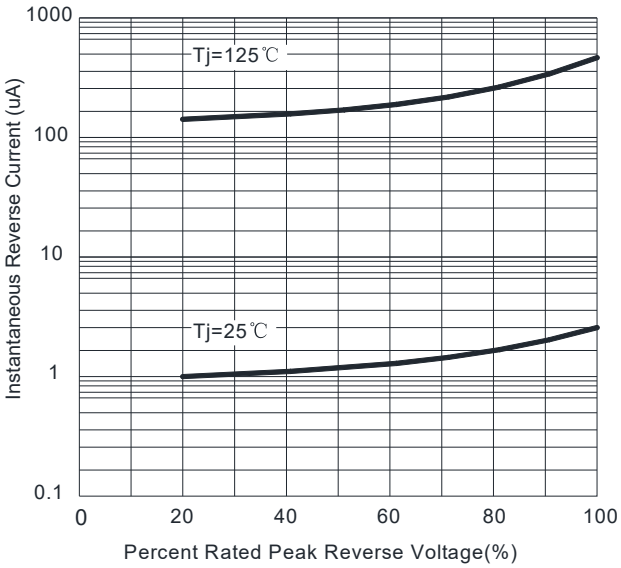
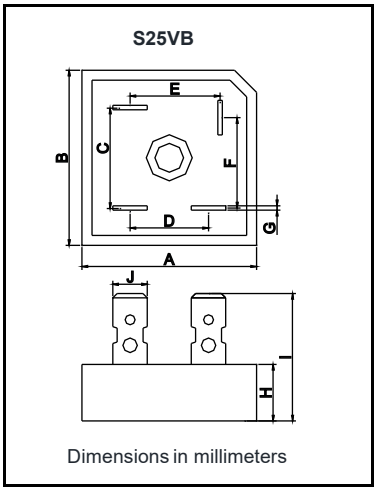


FIG4:Typical Reverse Characteristics



■ 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