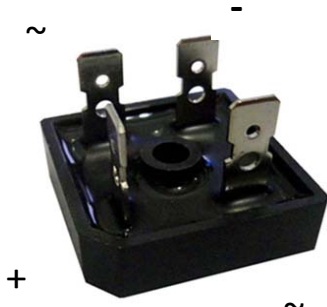


Bridge Rectifiers



Features

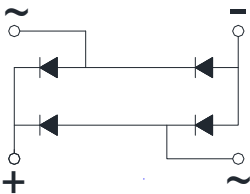
- UL recognition file number E230084
- High-Reliability
- Heat Resistance
- Low IR
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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 | 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 T _c =85°C | I _O | A | 35 | | | | | | |
| Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C | I _{FSM} | A | 500 | | | | | | |
| Current Squared Time @1ms≤t<8.3ms T _j =25°C, Rating of per diode | I ² t | A ² S | 1040 | | | | | | |
| 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 | 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 (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | S35VB10 | S35VB20 | S35VB40 | S35VB60 | S35VB80 | S35VB100 | S35VB120 |
|---|--------------------|------|---------|---------|---------|---------|---------|----------|----------|
| Thermal Resistance Between junction and case, With heatsink | R _{θ J-C} | °C/W | 1.0 | | | | | | |



S35VB10 THRU S35VB120

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)

FIG1:Io-Tc Curve

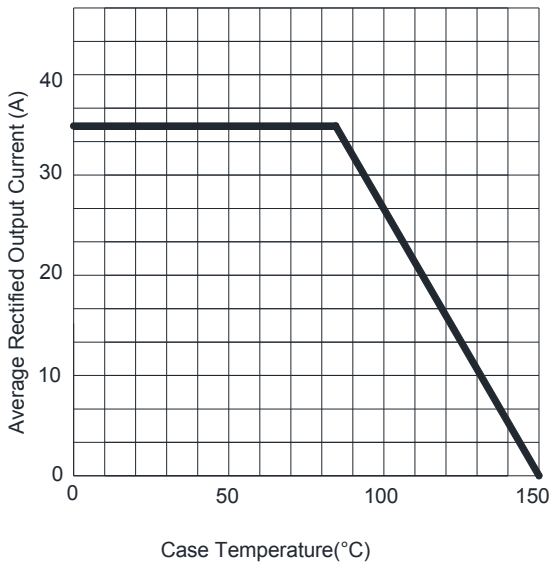


FIG2:Surge Forward Current Capability

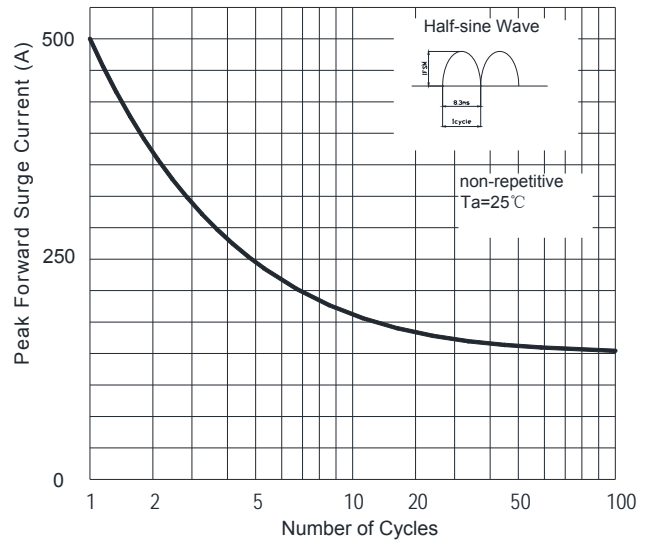


FIG3:Instantaneous Forward Voltage

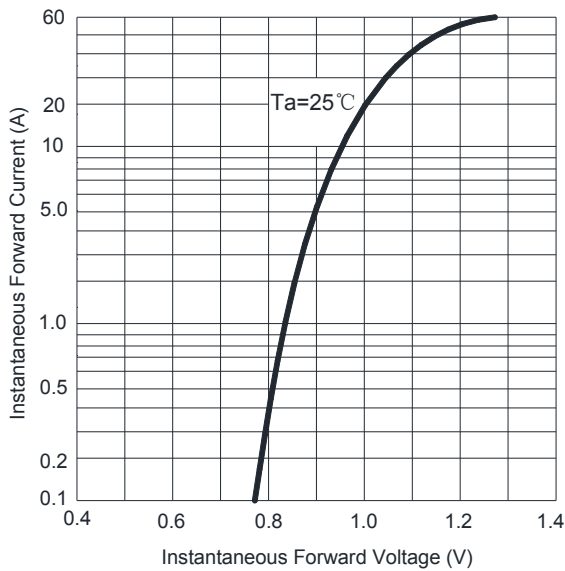
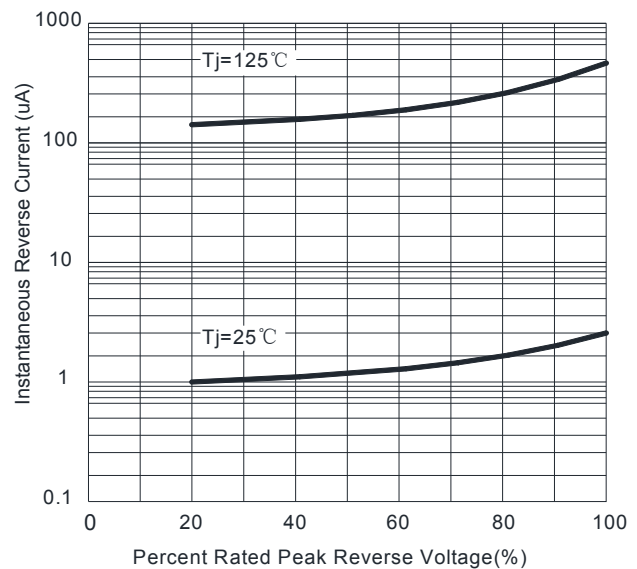


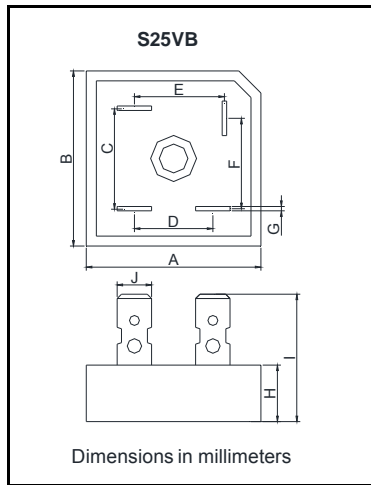
FIG4:Typical Reverse Characteristics





S35VB10 THRU S35VB120

■ 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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