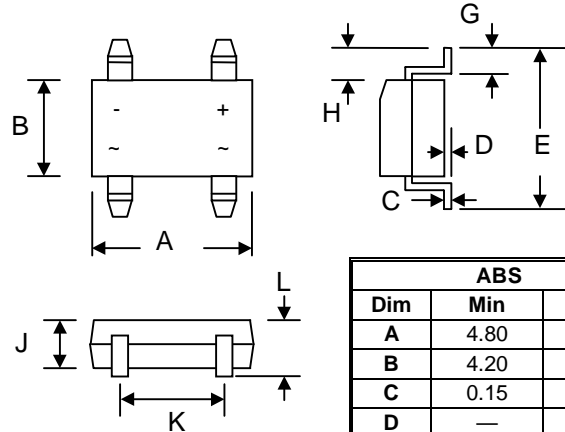


#### Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material – UL Flammability 94V-0



#### Mechanical Data

- Case: SOPA-4, ABS, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**

| ABS                  |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 4.80 | 5.30 |
| B                    | 4.20 | 4.60 |
| C                    | 0.15 | 0.25 |
| D                    | —    | 0.20 |
| E                    | 6.00 | 6.80 |
| G                    | 0.30 | 0.70 |
| H                    | 0.90 | 1.10 |
| J                    | —    | 1.50 |
| K                    | 3.80 | 4.20 |
| L                    | 1.22 | 1.72 |
| All Dimensions in mm |      |      |

#### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| Characteristic                                                                                                        | Symbol                             | EABS1       | EABS2 | EABS4 | EABS6 | Unit                 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------|-------|-------|-------|----------------------|
| Peak Repetitive Reverse Voltage                                                                                       | $V_{RRM}$                          | 100         | 200   | 400   | 600   | V                    |
| Working Peak Reverse Voltage                                                                                          | $V_{RWM}$                          |             |       |       |       |                      |
| DC Blocking Voltage                                                                                                   | $V_R$                              |             |       |       |       |                      |
| RMS Reverse Voltage                                                                                                   | $V_{R(RMS)}$                       | 70          | 140   | 280   | 560   | V                    |
| Average Rectified Output Current (Note 1) @ $T_A = 40^\circ\text{C}$                                                  | $I_O$                              | 1.5         |       |       |       | A                    |
| Average Rectified Output Current (Note 2) @ $T_A = 40^\circ\text{C}$                                                  |                                    |             |       |       |       |                      |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>Single half sine-wave superimposed on rated load<br>(JEDEC Method) | $I_{FSM}$                          | 50          |       |       |       | A                    |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )                                                                       | $I^2t$                             | 5.0         |       |       |       | $\text{A}^2\text{s}$ |
| Forward Voltage per element @ $I_F = 1.0\text{A}$                                                                     | $V_{FM}$                           | 0.95        | 1.25  | 1.7   |       | V                    |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$                                                                       | $I_{RM}$                           | 5.0         |       |       |       | $\mu\text{A}$        |
| At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$                                                              |                                    | 500         |       |       |       |                      |
| Reverse Recovery Time (Note 4)                                                                                        | $t_{rr}$                           | 35          |       |       |       | nS                   |
| Typical Junction Capacitance per leg (Note 3)                                                                         | $C_j$                              | 13          |       |       |       | pF                   |
| Typical Thermal Resistance per leg (Note 1)                                                                           | $R_{\theta JA}$<br>$R_{\theta JL}$ | 62.5<br>25  |       |       |       | $^\circ\text{C/W}$   |
| Operating and Storage Temperature Range                                                                               | $T_j, T_{STG}$                     | -55 to +150 |       |       |       | $^\circ\text{C}$     |

Note: 1. Mounted on glass epoxy PC board with  $1.3\text{mm}^2$  solder pad.  
2. Mounted on aluminum substrate PC board with  $1.3\text{mm}^2$  solder pad.  
3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.  
4. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $IRR = 0.25\text{A}$ . See figure 5.