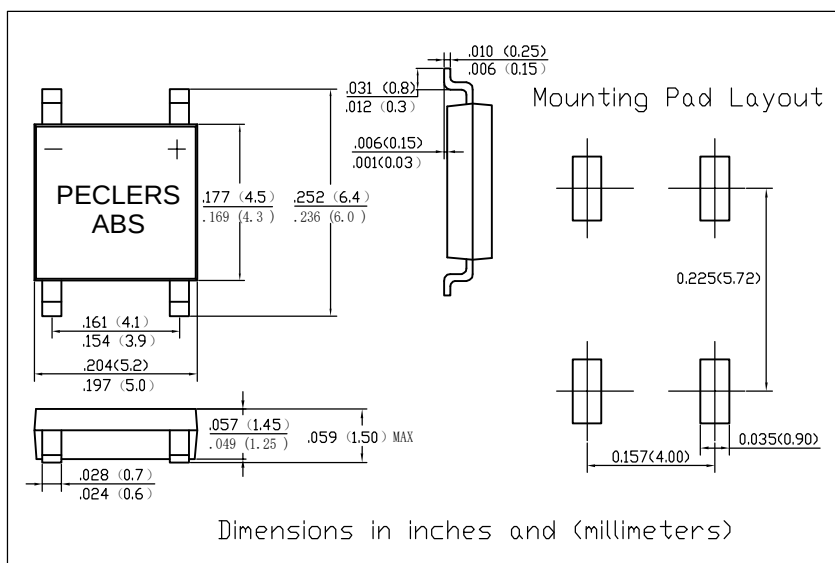


### Features

- 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, molded plastic ABS
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number



### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| TYPE NUMBER                                                                                                               | SYMBOL                            | ABS2G      | ABS4G | ABS6G | ABS8G | ABS10G | UNITS |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|-------|-------|-------|--------|-------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                    | V <sub>RRM</sub>                  | 200        | 400   | 600   | 800   | 1000   | V     |
|                                                                                                                           | V <sub>RWM</sub>                  |            |       |       |       |        |       |
|                                                                                                                           | V <sub>DC</sub>                   |            |       |       |       |        |       |
| RMS Reverse Voltage                                                                                                       | V <sub>RMS</sub>                  | 140        | 280   | 420   | 560   | 700    | V     |
| Average Rectified Output Current      @T <sub>A</sub> =50℃                                                                | I <sub>O</sub>                    | 2.0        |       |       |       |        | A     |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>Single half sine-wave superimposed on rated load<br>(JEDEC Method)     | I <sub>FSM</sub>                  | 60         |       |       |       |        | A     |
| Forward Voltage per element      @I <sub>F</sub> =2.0A                                                                    | V <sub>FM</sub>                   | 1.1        |       |       |       |        | V     |
| Peak Reverse Current                      @T <sub>A</sub> =25℃<br>At Rated DC Blocking Voltage      @T <sub>A</sub> =125℃ | I <sub>R</sub>                    | 5.0<br>500 |       |       |       |        | uA    |
| Typical Thermal Resistance per leg                                                                                        | R <sub>θJA</sub>                  | 62.5       |       |       |       |        | ℃/W   |
|                                                                                                                           | R <sub>θJL</sub>                  | 25         |       |       |       |        |       |
| Operating and Storage Temperature Range                                                                                   | T <sub>J</sub> , T <sub>STG</sub> | -55to+150  |       |       |       |        | ℃     |

FIG.1 FORWARD CURRENT DERATING CURVE

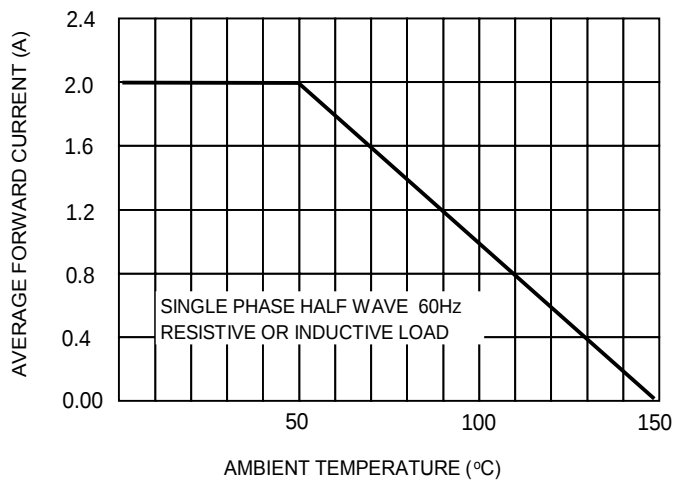


FIG.2 TYPICAL FORWARD CHARACTERISTICS

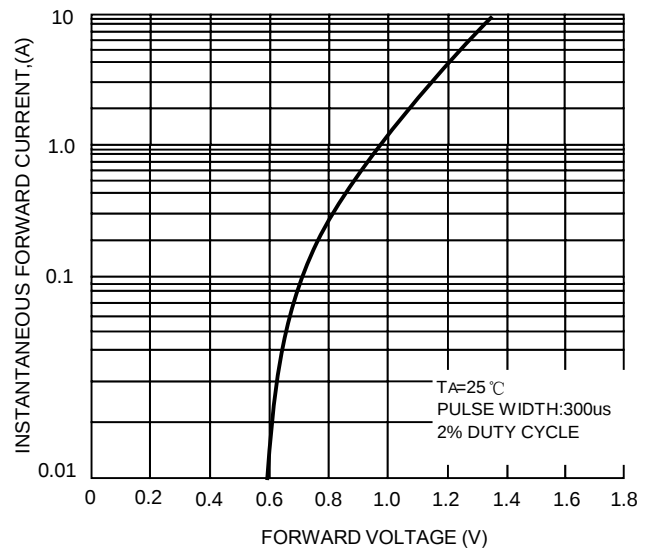


FIG.33 MXIMUM NON-REPETITIVE  
SURGE CURRENT

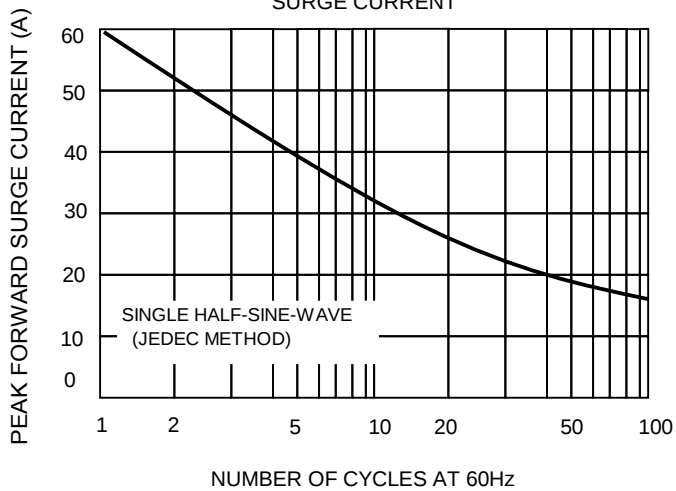


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

