



# Bridge Rectifiers

## ABS22 THRU ABS210 200 to 1000 V 2.0 A

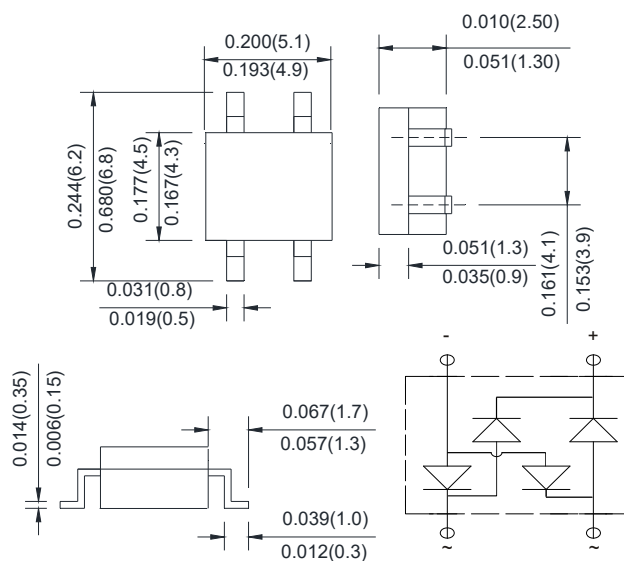
### Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

### Features And Mechanical Data

- Package:ABS
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 °C/10 seconds at terminals applications.
- Terminals: Tin plated leads, solderable per STD-002 and JESD22-B102
- Polarity: As marked on body

### ABS



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Ratings 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                                                                                                               | Symbols | ABS22                        | ABS24 | ABS26 | ABS28 | ABS210 | Units |
|---------------------------------------------------------------------------------------------------------------------------|---------|------------------------------|-------|-------|-------|--------|-------|
| Marking code                                                                                                              |         | ABS22                        | ABS24 | ABS26 | ABS28 | ABS210 |       |
| Maximum recurrent peak reverse voltage                                                                                    | VRRM    | 200                          | 400   | 600   | 800   | 1000   | Volts |
| Maximum rms voltage                                                                                                       | VRMS    | 140                          | 280   | 420   | 560   | 700    | Volts |
| Maximum dc blocking voltage                                                                                               | VDC     | 200                          | 400   | 600   | 800   | 1000   | Volts |
| Maximum average forward rectified current. Lead length @ (fig 1)                                                          | I(AV)   | 2.0 (Note 1)<br>1.6 (Note 2) |       |       |       |        | Amp   |
| Peak Forward Surge Current, 8.3 ms single half- sine-wave Superimposed on rated load (JEDEC method) (Rating of per diode) | IFSM    | 60                           |       |       |       |        | Amp   |
| Maximum instantaneous forward voltage at I(AV)                                                                            | VF      | 1.0                          |       |       |       |        | Volts |
| Maximum DC reverse current at rated DC blocking voltage per                                                               | IR      | 5<br>500                     |       |       |       |        | uA    |
| Current squared time@1ms≤t≤8.3ms Tj=25°C, Rating of per diode                                                             | I²t     | 15                           |       |       |       |        | A²S   |
| Typical Thermal Resistance Between junction and ambient                                                                   | ROJA    | 70                           |       |       |       |        | °C/W  |
| Typical Thermal Resistance Between junction and case                                                                      | ROJC    | 30                           |       |       |       |        | °C/W  |
| Typical Thermal Resistance Between junction and lead                                                                      | ROJL    | 25                           |       |       |       |        | °C/W  |
| Junction temperature                                                                                                      | TJ      | -65 to +150                  |       |       |       |        | °C    |
| Storage temperature range                                                                                                 | TSTG    | -65 to +150                  |       |       |       |        | °C    |

#### Note:

1. Unit mounted on 13 mm\*13 mm\*1.6 mm 1oz/ft2 glass epoxy PCB board, pad per pin with 2\*2mm solder pad areas
2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
3. The typical data above is for reference only.

※ This product The above data sheet typical data meet the Mentioned standards, designers for reference only

### Ordering Information (Example)

| Preferred P/N | Package code | Unit weight(g) | Minimum Package(pcs) | Inner box Quantity(pcs) | Outer carton quantity(pcs) | Delivery mode |
|---------------|--------------|----------------|----------------------|-------------------------|----------------------------|---------------|
| ABS           | F1           | about 0.095    | 5000                 | 10000                   | 100000                     | 13' reel      |

