

#### **Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Ultra fast switching for high efficiency
- ◆ Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- ♦ High temperature soldering guaranteed 250 °C/10 seconds at terminals



### **Package Marking and Ordering Information**

| Product ID                 | Pack              | Marking | Qty(PCS) |
|----------------------------|-------------------|---------|----------|
| B220A-13-F<br>-B2100A-13-F | SMA<br>(DO-214AC) | BA2xA   | 2000     |

x: From 20-100

## Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

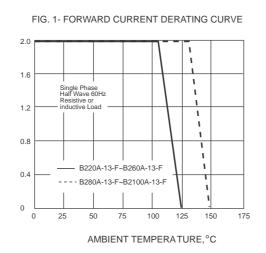
| Parameter  |         | B220A-      | B230A- | B240A- | B250A- | B260A- | B280A- | B2100A- | Units |
|--|---------|-------------|--------|--------|--------|--------|--------|---------|-------|
| Marking Code   | Symbols | 13-F        | 13-F   | 13-F   | 13-F   | 13-F   | 13-F   | 13-F    |       |
| Maximum repetitive peak reverse voltage                                  |         | 20          | 30     | 40     | 50     | 60     | 80     | 100     | V     |
| Maximum RMS voltage  |         | 14          | 21     | 28     | 35     | 42     | 56     | 70      | V     |
| Maximum DC blocking voltage  |         | 20          | 30     | 40     | 50     | 60     | 80     | 100     | V     |
| Maximum average forward rectified current at TL=55 ℃                     |         | 2.0         |        |        |        |        |        |         | А     |
| Peak forward surge current   |         |             |        |        |        |        |        |         |       |
| 8.3ms single half sine-wave  |         | 50.0        |        |        |        |        |        |         | Α     |
| superimposed onrated load (JEDEC Method)                                 |         |             |        |        |        |        |        |         |       |
| Maximum instantaneous forward voltage at 3.0A                            | VF      |             | 0.55   |        | 0.70   |        | 0.85   |         | V     |
| Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C |         | 0.5         |        |        |        |        |        | uA      |       |
|  |         | 10 5.0      |        |        |        |        | )      | uA      |       |
| Typical junction capacitance (NOTE 1)                                    |         | 220         |        |        | 180    |        |        |         | ns    |
|  |         |             |        |        |        | 100    |        |         |       |
| Typical thermal resistance (NOTE 2)                                      |         | 75.0        |        |        |        |        |        |         | °C/W  |
| Operating junction and storage temperature range                         |         | -50 to +150 |        |        |        |        |        |         | °C    |

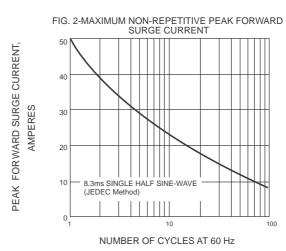
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

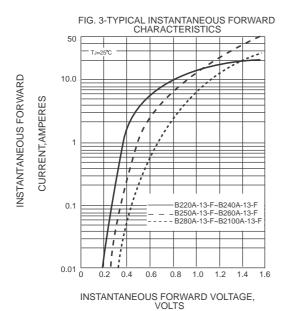


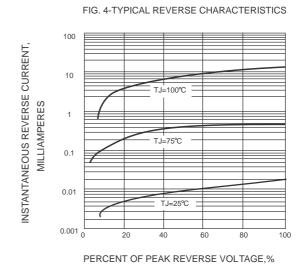
## **Typical Characteristics**

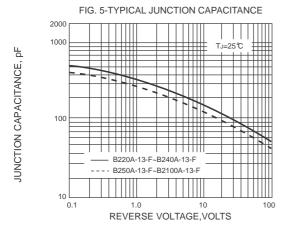


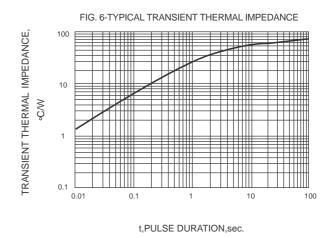






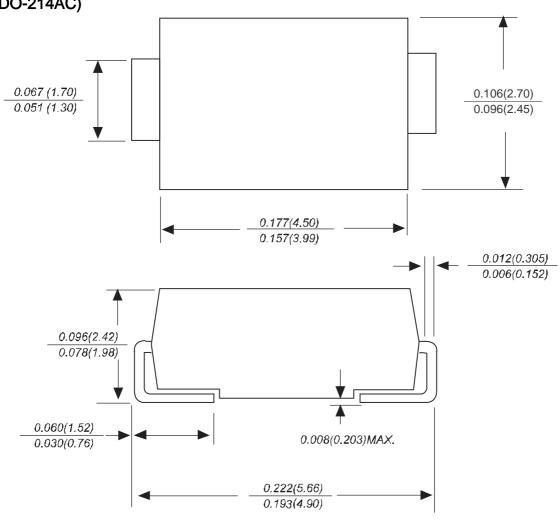








# Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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