

# **ES2AA THRU ES2JA**

## Super Fast Recovery Rectifier Diode

#### **Features**

- Ideal for automated placement
- Glass passivated chip junction
- High frequency
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C

## **Typical Application**

For use in high frequency rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.



#### **Mechanical Data**

- Package: DO-214AC(SMA)
   Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals:Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

## ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

| DADAMETED                              | 0                  | Unit | 0   | ES2        |     |     |     |     |     |     |     |
|--|--------------------|------|---|------------|-----|-----|-----|-----|-----|-----|-----|
| PARAMETER                              | Symbol             |      | Conditions                                    | AA         | ВА  | CA  | DA  | FA  | GA  | НА  | JA  |
| Repetitive Peak Reverse Voltage        | VRRM               | V    |   | 50         | 100 | 150 | 200 | 300 | 400 | 500 | 600 |
| Average Forward Current                | l <sub>F(AV)</sub> | Α    | 60Hz Half-sine wave, Resistance load, TL=110℃ | 2.0        |     |     |     |     |     |     |     |
| Surge(Nonrepetitive)Forward<br>Current | İFSM               | Α    | 60HZ Half-sine wave, 1 cycle,<br>Ta=25°C      | 50         |     |     |     |     |     |     |     |
| Storage Temperature                    | Tstg               | °C   |   | -55 ~ +150 |     |     |     |     |     |     |     |
| Junction Temperature                   | Tj                 | °C   |   | -55 ~ +150 |     |     |     |     |     |     |     |

# Electrical Characteristics (Ta=25°C Unless otherwise specified)

| DADAMETED                     | Cumbal             | Unit   | Conditio   | ES2     |     |      |    |       |    |    |    |  |
|-------------------------------|--------------------|--------|--|---------|-----|------|----|-------|----|----|----|--|
| PARAMETER                     | Symbol             |        | Condition  | AA      | ВА  | CA   | DA | FA    | GA | НА | JA |  |
| Peak Forward Voltage          | V <sub>FM</sub>    | V      | I <sub>F</sub> =2.0                                      | 0.95    |     |      |    | 1.3 1 |    | .7 |    |  |
| Peak Reverse Current          | IRRM1              |        | \/\/   | Ta=25℃  | 5.0 |      |    |       |    |    |    |  |
|                               | IRRM2              | μA     | V <sub>RM</sub> =V <sub>RRM</sub>                        | Ta=125℃ | 350 |      |    |       |    |    |    |  |
| Maximum reverse recovery time | Trr                | ns     | I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0A,I <sub>r</sub> | 35      |     |      |    |       |    |    |    |  |
| Thermal Resistance(Typical)   | <b>R</b> өJ-A      | °C /\\ | Between junction ar                                      | 75¹)    |     |      |    |       |    |    |    |  |
|                               | R <sub>0</sub> J-L | °C/W   | Between junction and terminal                            |         |     | 201) |    |       |    |    |    |  |

Notes:

Revised: 2021-11-29



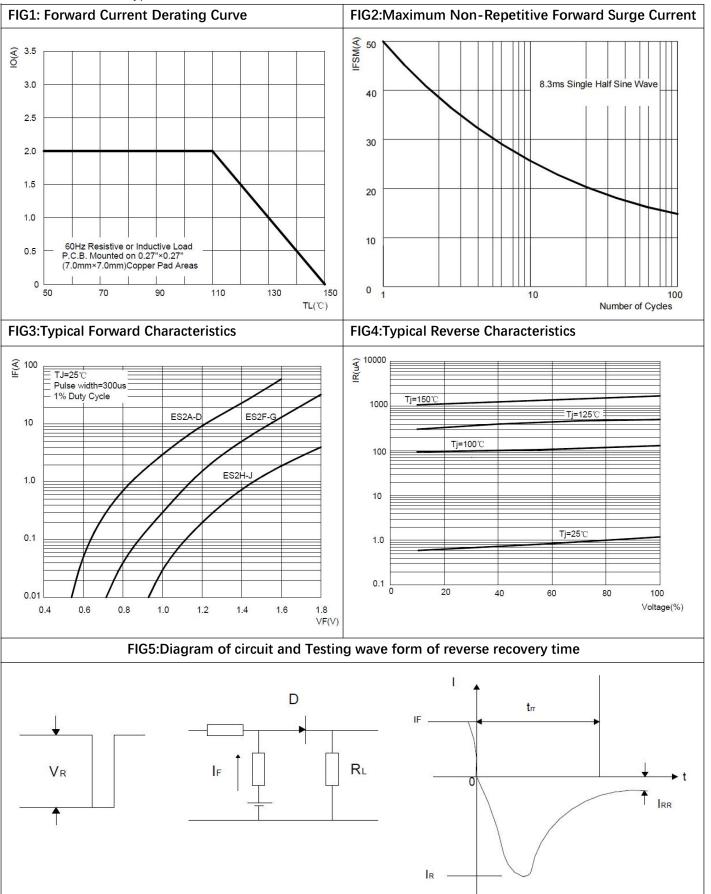


<sup>1)</sup> Thermal resistance from junction to ambientand from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm)copper pad areas



# **ES2AA THRU ES2JA**

### ■ Characteristics (Typical)



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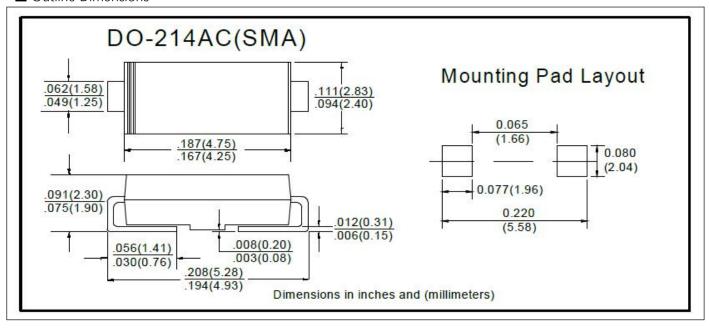


# **ES2AA THRU ES2JA**

## ■ Ordering Information (Example)

| PREFERED    | PACKAGE CODE  | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |  |
|-------------|---------------|----------------------|-------------------------|----------------------------|---------------|--|
| ES2AA~ES2JA | DO-214AC(SMA) | 5000                 | 10000                   | 80000                      | 13" reel      |  |
| ES2AA~ES2JA | DO-214AC(SMA) | 7500                 | 15000                   | 120000                     | 13" reel      |  |

#### ■ Outline Dimensions



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