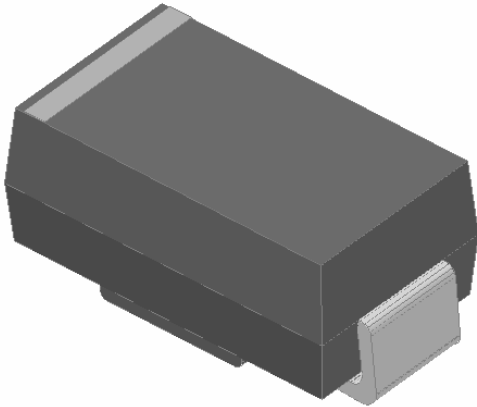




# SS15AQ THRU SS16AQ

RoHS  
COMPLIANT

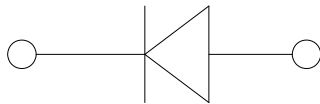


## Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.

## Mechanical Data

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



## ■Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

| PARAMETER                                                                                | SYMBOL           | UNIT | SS15AQ | SS16AQ |
|------------------------------------------------------------------------------------------|------------------|------|--------|--------|
| Device marking code                                                                      |                  |      | SS15A  | SS16A  |
| Repetitive peak reverse voltage                                                          | V <sub>RRM</sub> | V    | 50     | 60     |
| Maximum RMS voltage                                                                      | V <sub>RMS</sub> | V    | 35     | 42     |
| Maximum DC blocking voltage                                                              | V <sub>DC</sub>  | V    | 50     | 60     |
| Maximum average forward rectified current at T <sub>L</sub> (Fig.1)                      | I <sub>O</sub>   | A    | 1.0    |        |
| Surge(non-repetitive)forward current<br>@60Hz half-sine wave,1 cycle, T <sub>J</sub> =25 | I <sub>FSM</sub> | A    | 40     |        |
| Voltage rate of change (rated V <sub>R</sub> )                                           | dV/dt            | V/μs | 10000  |        |

Storage temperature T<sub>stg</sub> % 0

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

## ■Electrical Characteristics(T<sub>a</sub>=25 Unless otherwise specified)

| PARAMETER                     | SYMBOL         | TEST CONDITIONS           |                     | TYP  | MAX  | UNIT |
|-------------------------------|----------------|---------------------------|---------------------|------|------|------|
| Instantaneous forward voltage | V <sub>F</sub> | I <sub>F</sub> =1A        | T <sub>J</sub> =25  | 0.5  | 0.7  | V    |
|                               |                |                           | T <sub>J</sub> =125 | 0.45 | 0.55 |      |
| Reverse current               | I <sub>R</sub> | Rated V <sub>R</sub>      | T <sub>J</sub> =25  | 8    | 50   | μA   |
|                               |                |                           | T <sub>J</sub> =125 | -    | 10   | mA   |
| Typical junction capacitance  | C <sub>J</sub> | V <sub>R</sub> =4V,f=1MHz |                     | 75   | -    | pF   |





## SS15AQ THRU SS16AQ

---



## SS15AQ THRU SS16AQ

---

### Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics, are not designed for use in medical, lifesaving, lifesustaining, or military. Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.