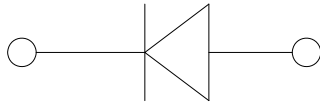
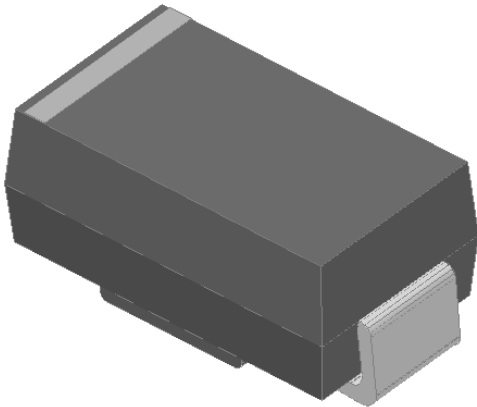


## Surface Mount Schottky Rectifier



### Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- Low VF
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, 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 (Ta=25 Unless otherwise specified)

| PARAMETER                                                                        | SYMBOL    | UNIT | SSL14A    | SSL16A | SSL110A |
|----------------------------------------------------------------------------------|-----------|------|-----------|--------|---------|
| Device marking code                                                              |           |      | SSL14A    | SSL16A | SSL110A |
| Repetitive peak reverse voltage                                                  | $V_{RRM}$ | V    | 40        | 60     | 100     |
| Average rectified output current<br>@60Hz sine wave, resistance load, TL (FIG.1) | $I_O$     | A    | 1.0       |        |         |
| Surge(non-repetitive)forward current<br>@ 60Hz half-sine wave, 1 cycle, Ta=25    | $I_{FSM}$ | A    | 28        |        |         |
| Storage temperature                                                              | $T_{stg}$ |      | -55 ~+150 |        |         |
| Junction temperature                                                             | $T_j$     |      | -55 ~+150 |        |         |

### ■Electrical Characteristics Ta=25 Unless otherwise specified

| PARAMETER                                                                           | SYMBOL    | UNIT | TEST CONDITIONS | SSL14A | SSL16A | SSL110A |
|-------------------------------------------------------------------------------------|-----------|------|-----------------|--------|--------|---------|
| Maximum instantaneous forward voltage drop per diode                                | $V_F$     | V    | $I_{FM}=1.0A$   | 0.45   | 0.55   | 0.6     |
| Maximum DC reverse current at rated DC blocking voltage per diode@ $V_{RM}=V_{RRM}$ | $I_{RRM}$ | mA   | Ta=25           | 0.5    |        |         |
|                                                                                     |           |      | Ta=100          | 10     |        |         |

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS







## SSL14A THRU SSL110A

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### Disclaimer