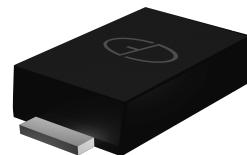


## Features

- Low  $V_F$  schottky barrier rectifiers
- Low profile - typical height 1.0 mm
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified



Package: eSGA  
(SOD-123FL)

## Applications

For use in fast switching in RF module, lighting, cell phone, portable devices, power supply and other consumer applications.

## Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

| Parameter                                                                            | Symbol                            | FS22N         | FS22NS | FSL23 | FSL23S | FSL24 | FS24N | FSL26 | Unit |
|--------------------------------------------------------------------------------------|-----------------------------------|---------------|--------|-------|--------|-------|-------|-------|------|
| Maximum Repetitive Peak Reverse Voltage                                              | V <sub>RRM</sub>                  | 20            | 20     | 30    | 30     | 40    | 40    | 60    | V    |
| Maximum RMS Voltage                                                                  | V <sub>RMS</sub>                  | 14            | 14     | 21    | 21     | 28    | 28    | 42    | V    |
| Maximum DC Blocking Voltage                                                          | V <sub>DC</sub>                   | 20            | 20     | 30    | 30     | 40    | 40    | 60    | V    |
| Maximum Average Forward Rectified Current                                            | I <sub>F(AV)</sub>                | 2.0           |        |       |        |       |       |       | A    |
| Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load) | I <sub>FSM</sub>                  | 50            |        |       |        | 80    |       | 50    | A    |
| Operating Junction and Storage Temperature Range                                     | T <sub>J</sub> , T <sub>STG</sub> | - 55 to + 125 |        |       |        |       |       |       | °C   |

## Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

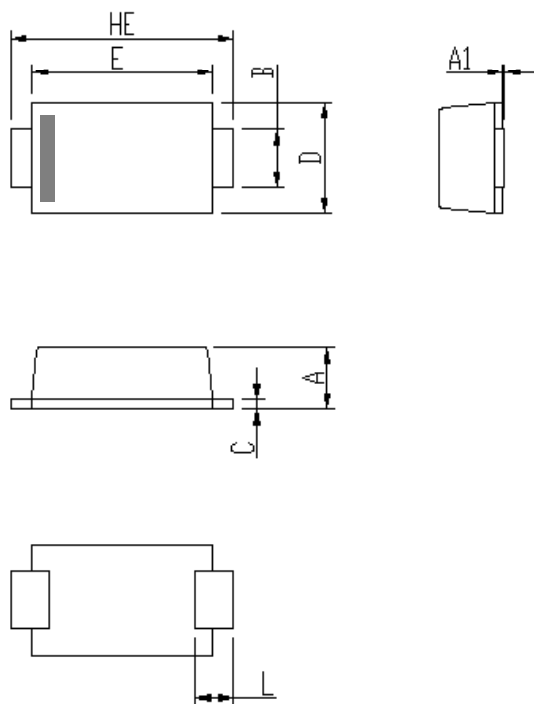
| Parameter                                             | Test Conditions          | Symbol          | FS22N | FS22NS | FSL23 | FSL23S | FSL24 | FS24N | FSL26 | Unit               |
|-------------------------------------------------------|--------------------------|-----------------|-------|--------|-------|--------|-------|-------|-------|--------------------|
| Maximum Instantaneous Forward Voltage                 | 2 A                      | $V_F$           | 0.43  | 0.45   | 0.4   | 0.43   | 0.43  | 0.45  | 0.55  | V                  |
| Maximum DC Reverse Current @Rated DC Blocking Voltage | $T_A = 25^\circ\text{C}$ | $I_R$           | 0.5   | 0.5    | 1     | 0.5    | 1     | 1     | 2     | mA                 |
| Typical Thermal Resistance                            | Junction to Lead         | $R_{\theta JL}$ | 20    |        |       |        |       |       |       | $^\circ\text{C/W}$ |

# FS22N thru FSL26

Surface Mount Schottky Rectifier  
Reverse Voltage 20-60V Forward Current 2A

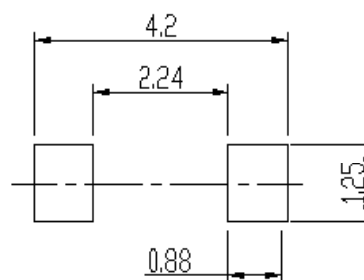
## Package Outline Dimensions

eSGA (SOD-123FL)



| DIM | Unit: mm |      | Unit: inch |       |
|-----|----------|------|------------|-------|
|     | MIN      | MAX  | MIN        | MAX   |
| A   | 0.9      | 1.08 | 0.035      | 0.043 |
| A1  | 0        | 0.1  | 0.000      | 0.004 |
| B   | 0.85     | 1.05 | 0.033      | 0.041 |
| C   | 0.1      | 0.25 | 0.004      | 0.010 |
| D   | 1.7      | 2    | 0.067      | 0.079 |
| E   | 2.9      | 3.1  | 0.114      | 0.122 |
| L   | 0.43     | 0.83 | 0.017      | 0.033 |
| HE  | 3.5      | 3.9  | 0.138      | 0.154 |

Soldering footprint



## Packing Information

### Packing quantities

3000 pcs/Reel, 40 Reels/Box; 8mm Tape, 7" Reel

### Tape & Reel Spec

