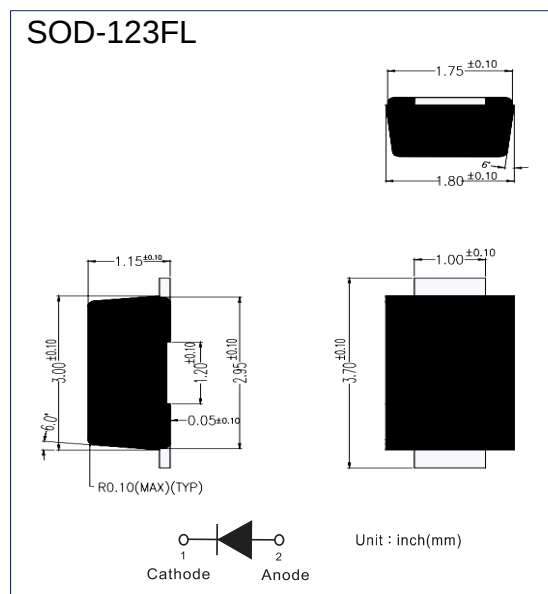


## Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Compliant with RoHS standards, halogen-free

## Mechanical Data

- Package: SOD-123FL
- Terminals: Tin plated leads, solderable per
- Polarity: Cathode line denotes the cathode end



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

| PARAMETER                                                                                       | SYMBOL           | UNIT | DSK22     | DSK23 | DSK24 | DSK25 | DSK26 | DSK28     | DSK210 | DSK215 | DSK220 |
|-------------------------------------------------------------------------------------------------|------------------|------|-----------|-------|-------|-------|-------|-----------|--------|--------|--------|
| Repetitive peak reverse voltage                                                                 | V <sub>RRM</sub> | V    | 20        | 30    | 40    | 50    | 60    | 80        | 100    | 150    | 200    |
| Average rectified output current<br>@60Hz sine wave, Resistance load,<br>T <sub>a</sub> (FIG.1) | I <sub>O</sub>   | A    | 2.0       |       |       |       |       |           |        |        |        |
| Surge(non-repetitive)forward current<br>@60Hz half-sine wave,1 cycle, T <sub>j</sub> =25℃       | I <sub>FSM</sub> | A    | 40        |       |       |       |       |           |        |        |        |
| Storage temperature                                                                             | T <sub>stg</sub> | ℃    | -55 ~+150 |       |       |       |       |           |        |        |        |
| Junction temperature                                                                            | T <sub>j</sub>   | ℃    | -55 ~+150 |       |       |       |       | -55 ~+175 |        |        |        |



## Electrical Characteristics

| PARAMETER                                                                                             | SYMBOL           | UNIT | TEST CONDITIONS       | DSK22 | DSK23 | DSK24 | DSK25 | DSK26 | DSK28 | DSK210 | DSK215 | DSK220 |
|-------------------------------------------------------------------------------------------------------|------------------|------|-----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Maximum instantaneous forward voltage drop per diode                                                  | V <sub>F</sub>   | V    | I <sub>FM</sub> =3.0A | 0.55  |       |       | 0.70  |       | 0.85  |        | 0.95   |        |
| Maximum DC reverse current at rated DC blocking voltage per diode @ V <sub>RM</sub> =V <sub>RRM</sub> | I <sub>RRM</sub> | mA   | T <sub>a</sub> =25°C  | 0.5   |       |       |       |       | 0.1   |        |        |        |
|                                                                                                       |                  |      | T <sub>a</sub> =100°C | 10    |       |       |       |       | 5     |        |        |        |

## Characteristics Curves

FIG1: I<sub>o</sub>-T<sub>L</sub> Curve

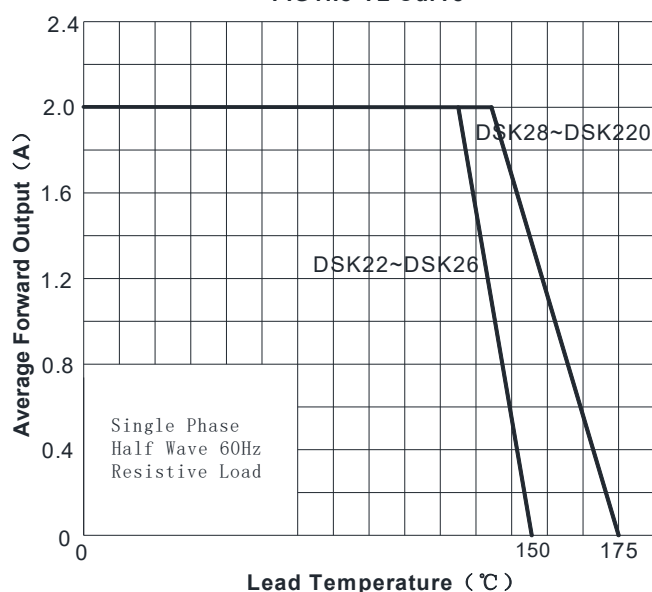


FIG2: Surge Forward Current Capability

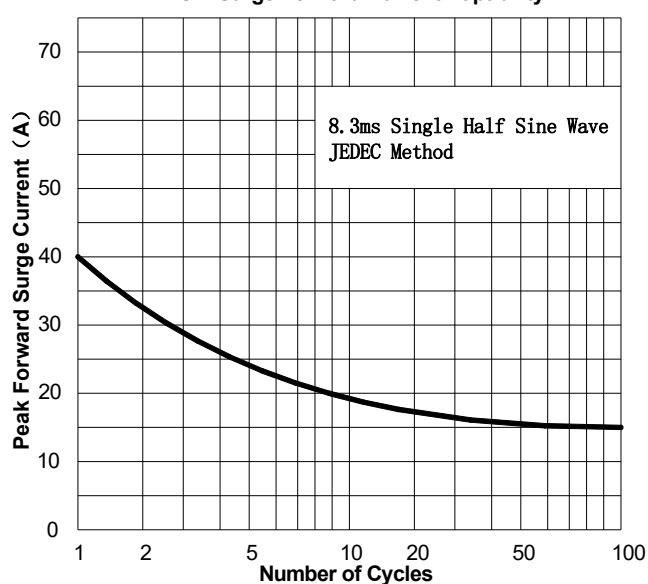


FIG3: Forward Voltage

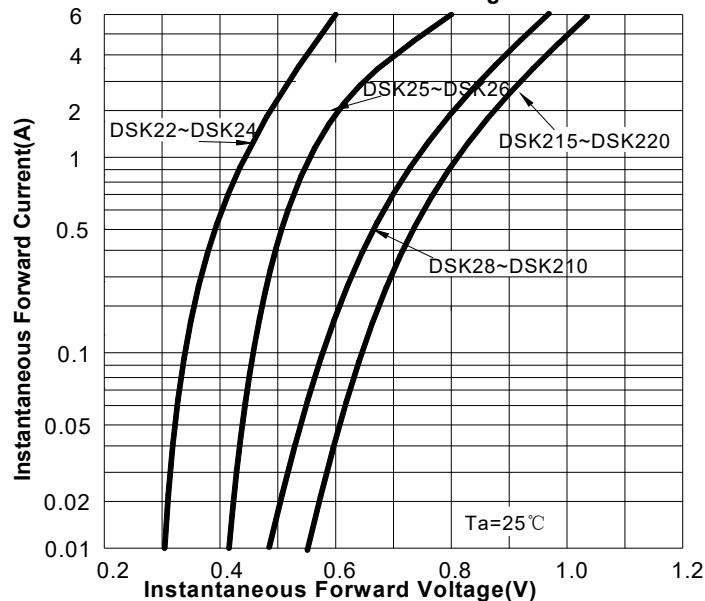


FIG4: Typical Reverse Characteristics

