# FSL26

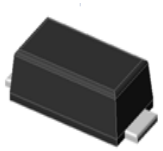
Surface Mount Schottky Rectifier

Reverse Voltage 60V  Forward Current 2A

## Features

- Super Low VF Schottky barrier diodes
- Very low profile - typical height of 1.0 mm
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260℃/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

RoHS COMPLIANT



eSGA
(SOD-123FL)

## Typical Applications

For use of fast swiching in RF module, lighting, cellular phone, portable device, power supplies and other consumer applications.

## Maximum Ratings (TA = 25 °C unless otherwise noted)

| Parameter | Symbol | FSL26 | Unit |
|---|---|---|---|
| Maximum repetitive peak reverse voltage | VRRM | 60 | V |
| Maximum RMS voltage | VRMS | 42 | V |
| Maximum DC blocking voltage | VDC | 60 | V |
| Maximum average forward rectified current | IF(AV) | 2.0 | A |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 50 | A |
| Operating junction temperature range | $T_J$ | - 55 to + 125 | °C |
| Storage temperature range | $T_{STG}$ | - 55 to + 150 | °C |

## Electrical Characteristics (TA = 25 °C unless otherwise noted)

| Parameter | Test Conditions | Symbol | FSL26 | Unit |
|---|---|---|---|---|
| Maximum instantaneous forward voltage | IF=1A,TA=25℃ | $V_F$ | 0.45 | Volts |
| | IF=2A,TA=25℃ | | 0.50 | |
| Maximum DC reverse current at rated DC blocking voltage | TA=25℃ | $I_R$ | 1000 | uA |
| | TA=125℃ | | 100 | mA |
| Typical junction capacitance | 4.0 V, 1 MHz | $C_J$ | 125 | pF |
| Typical thermal resistance[1)] | juntion to ambient | $R_{\theta JA}$ | 85 | ℃/W |
| | juntion to mount | $R_{\theta JM}$ | 30 | |

Note:1),The thermal resistance from junction to ambient,case or mount,mounted on P.C.B with 5×5mm copper pads,2 OZ,FR4 PCB

## Ratings and Characteristics Curves

(TA = 25℃ unless otherwise noted)

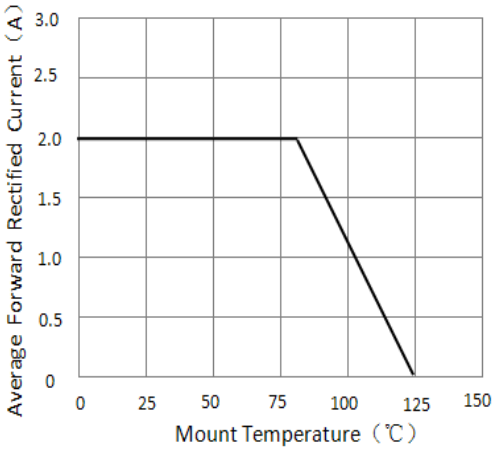



Figure 1.Forward Current Derating Curve

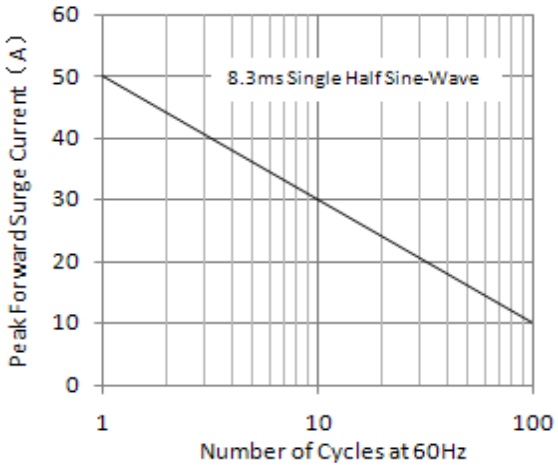



Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

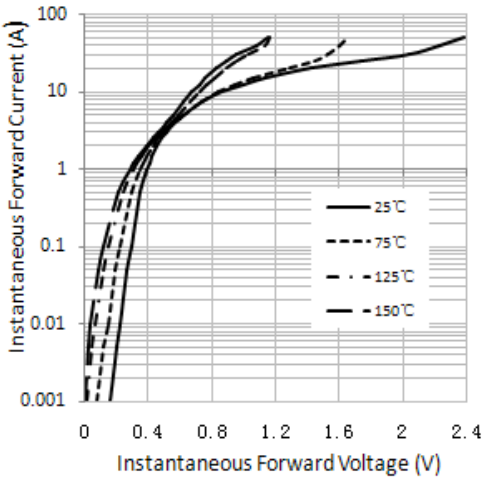



Figure 3. Typical Instantaneous Forward Characteristics

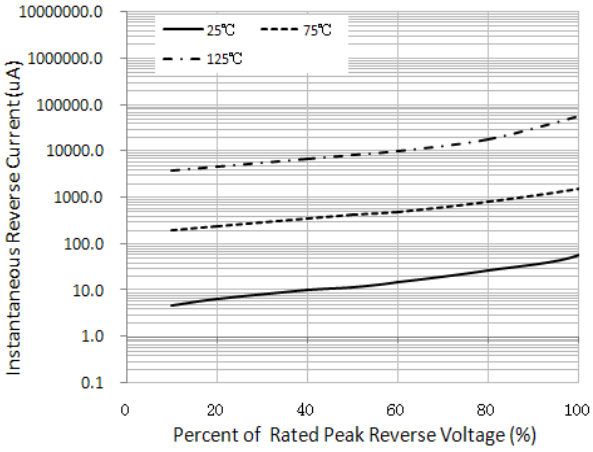



Figure 4. Typical Reverse Characteristics

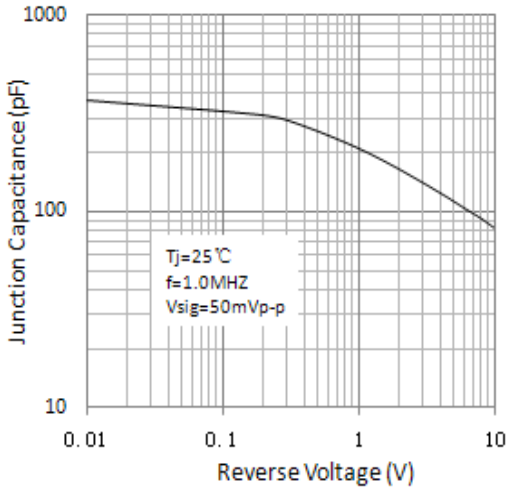
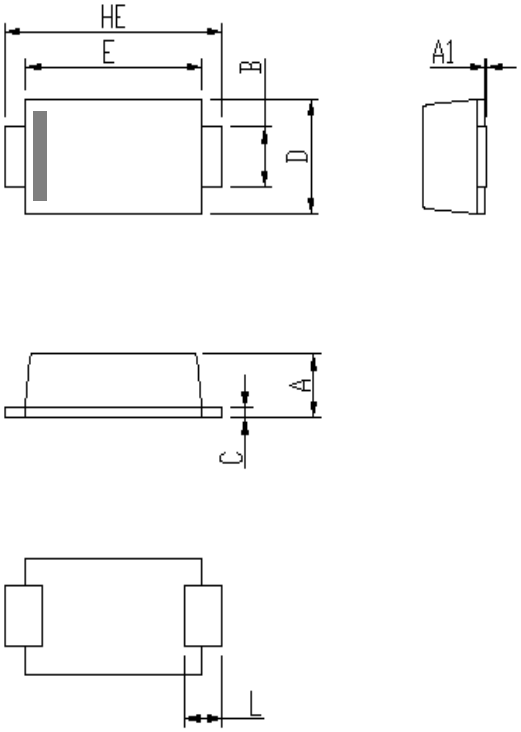


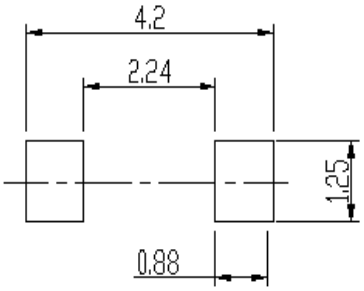

Figure 5. Typical Junction Capacitance

## Package Outline Dimensions




| 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 |

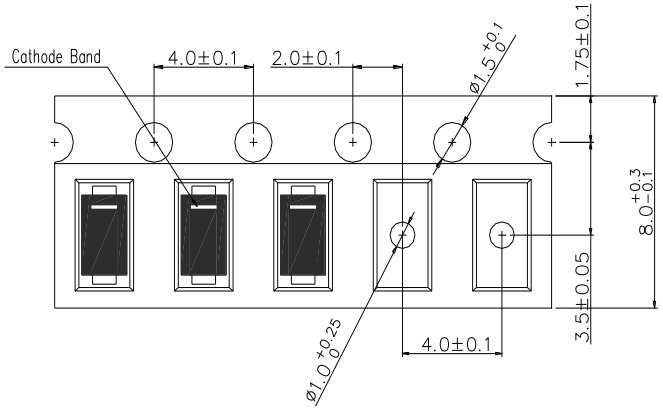
Soldering footprint




## Packing Information

**Packing quantities:**
3000 pcs/Reel, 40 Reels/Box; 8mm Tape, 7" Reel

**Tape & Reel Specification**



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