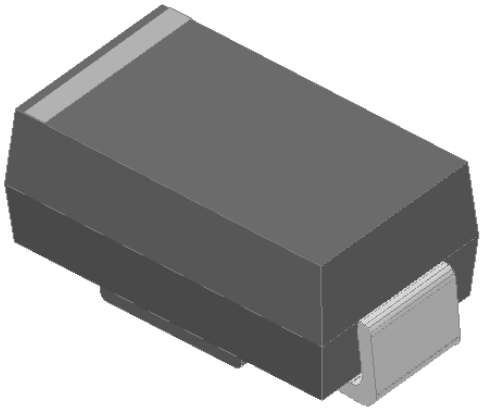
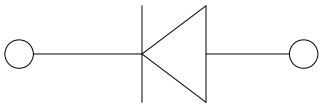
四川旭茂微科技有限公司
Sichuan Xu Mao Micro Technology Co.,Ltd

# SS34L THRU SS320L

**Surface mount LVF Schottky diode**
**Reverse Voltage-40to200v**
**Forward current-3A**





## Features

LVF Schottky chip

Low VF， Low power losses, high efficiency

Ldeal for surface mounted applications

Plastic Case Material has UL Flammability

## Mechanical Data

Package: SMA

Terminals:Tin Plated leads, solderable per Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant

## Maximum Ratings (Ta=25℃ Unless otherwise specified)

| Type Number | SYMBOL | SS34L | SS36L | SS38L | SS310L | SS315L | SS320L | Umit |
|---|---|---|---|---|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | $V_{RRM}$ | 40 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 28 | 42 | 56 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 40 | 60 | 80 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current at TL = 100℃ | $IO_{(AV)}$ | 3.0 | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM | 60.0 | | | | | | A |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃ | | 120.0 | | | | | | A |
| Current squared time @1ms≤t8.3≤ms Tj=25℃， Rating of per diode | $I^2t$ | 14.9 | | | | | | $A^2S$ |
| Maximum Forward Voltage at 3.0A DC | $V_{FM}$ | 0.45 | 0.55 | 0.65 | | 0.85 | | V |
| Maximum Reverse Current TA = 25℃ | IR | 0.5 | | 0.2 | | | | mA |
| at Rated DC Blocking Voltage TA = 100℃ | | 5 | | 2 | | | | mA |
| Typical Thermal Resistance | $R_{QJA}$ | 65.0 | | | | | | ℃/W |
| Operating Junction Temperature Range | $T_J$ | —55to+150 | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | —55to+150 | | | | | | ℃ |

FIG.1MAXIMUM AVERAGE FORWARD CURRENT DERATING

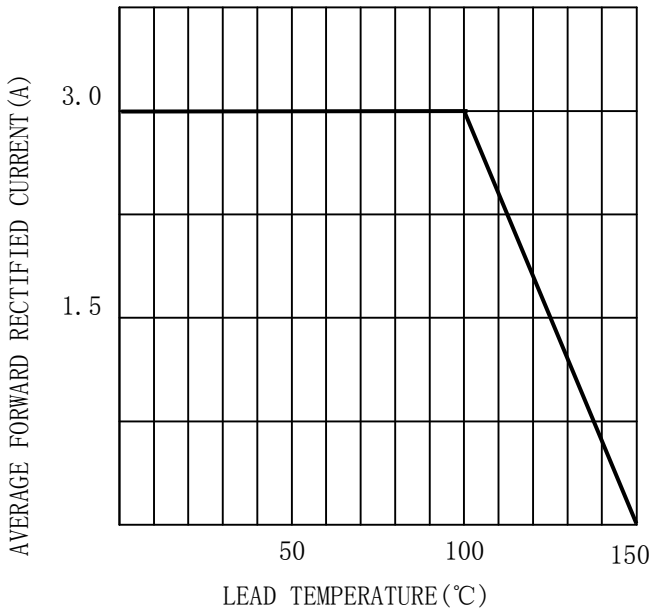



FIG.2TYPICAL FORWARD CHARACTERISTICS

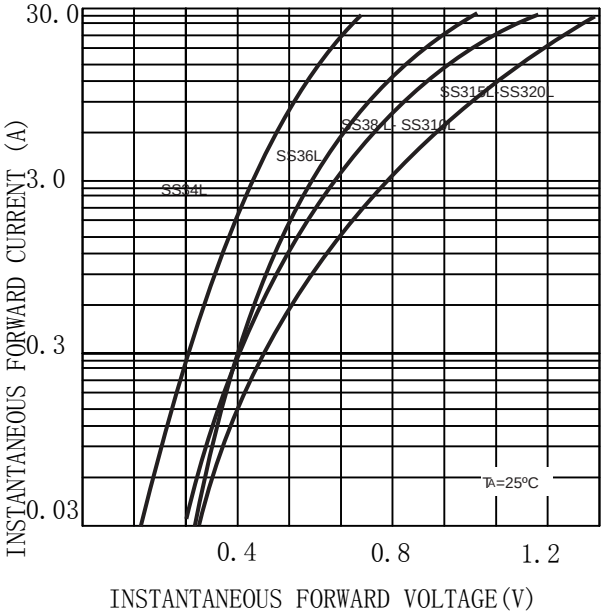



FIG.3MAXIMUM NON-REPEITIVE SURGE CURRENT

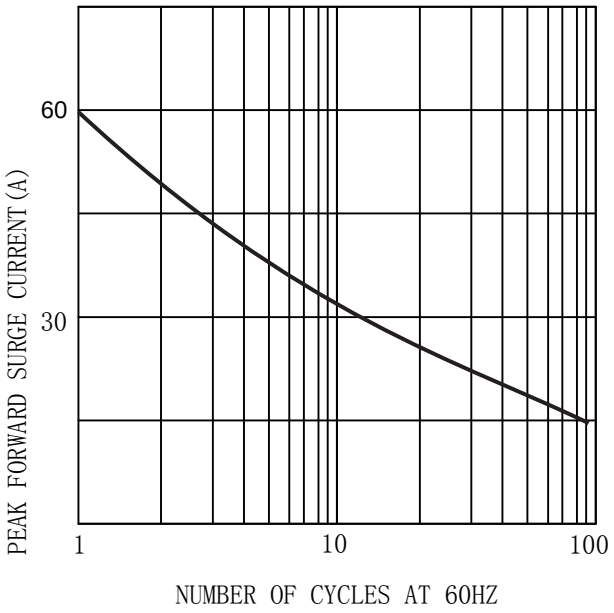
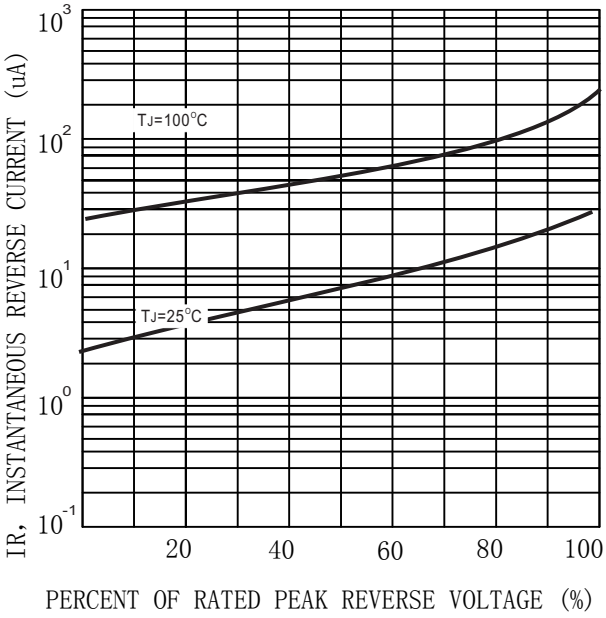



FIG. 4 TYPICAL REVERSE CHARACTERISTICS(per element)



# MARKING INFORMATION


= Logo

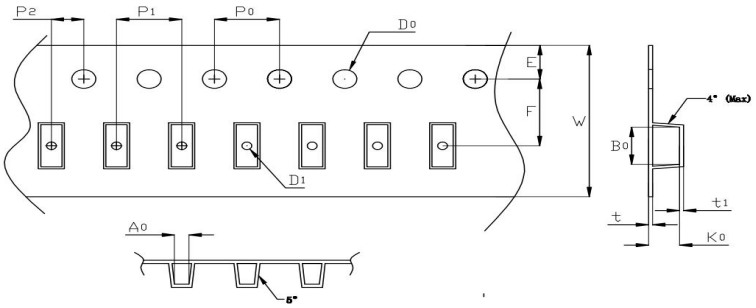
**** = Date Code Marking

SS***L = Marking Code

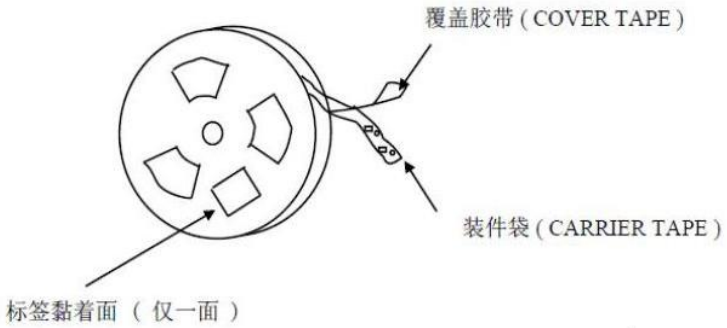
Print according to customer request

# PACKING REQUIRMENTS

- Carrier tape packing



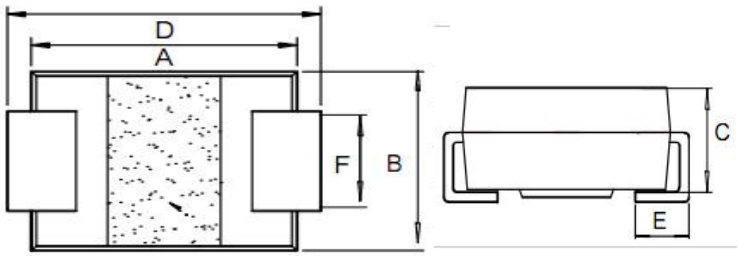

| Specifications | Carrier tape type | Ao | Bo | Ko | Po | W | t | Exiplain |
|---|---|---|---|---|---|---|---|---|
| SMA | Anti-static | 2.65± 0.10 | 5.20± 0.10 | 2.30± 0.10 | 4.00± 0.10 | 12.0± 0.10 | 0.20± 0.05 | |




| DEVICE TYPE | Tape width | 11"Reel | | | 11"Reel | | |
|---|---|---|---|---|---|---|---|
| | | Q'TY/REEL (pcs) | BOX/CARTOON | Q'TY/REEL (pcs) | Q'TY/REEL (pcs) | BOX/CARTOON | Q'TY/REEL (pcs) |
| SMA | 12mm | 5000 | 20 | 100000 | 5000 | 18 | 90000 |

## Outline Dimensions

SMA




| SMA | | | | |
|---|---|---|---|---|
| DIM | INCHES | | MM | |
| | MIN | MAX | MIN | MAX |
| A | 0.16 | 0.18 | 4.05 | 4.65 |
| B | 0.09 | 0.11 | 2.4 | 2.8 |
| C | 0.07 | 0.09 | 1.8 | 2.3 |
| D | 0.18 | 0.21 | 4.67 | 5.27 |
| E | 0.04 | 0.06 | 1 | 1.4 |
| F | 0.05 | 0.06 | 1.2 | 1.6 |

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