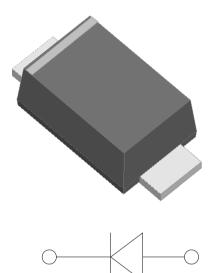


SS54L

Surface mount LVF Schottky diode Reverse Voltage45V Forward current-5A

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: SMAFL 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°C Unless otherwise

| Type Number | SYMBOL | SS54L | Umit |
|--|--------------------|-------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 45 | V |
| Maximum RMS Voltage | V _{RMS} | 31.5 | V |
| Maximum DC Blocking Voltage | V _{DC} | 45 | V |
| Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$ C | IO _(AV) | 5.0 | А |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM | 100.0 | А |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃ | | 200.0 | A |
| Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode | l ² t | 41.5 | A ² S |
| Maximum Forward Voltage at 5.0A DC | V _{FM} | 0.45 | V |
| Maximum Reverse Current TA = 25 °C | ID | 0.2 | |
| at Rated DC Blocking Voltage TA = 100 $^{\circ}$ C | IR – | 10.0 | — mA |
| Typical Thermal Resistance Between junction and | R _{QJa} | 65.0 | °C/W |
| Operating Junction Temperature Range | TJ | | °C |
| Storage Temperature Range | T _{STG} | | °C |



四川旭茂微科技有限公司

Sichuan Xu Mao Micro Technology Co.,Ltd

SS54L

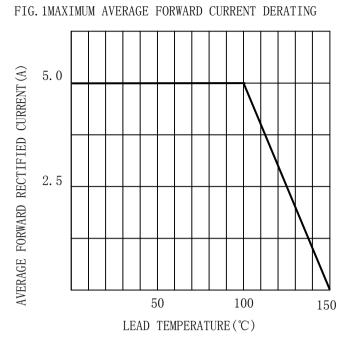


FIG. 2TYPICAL FORWARD CHARACTERISTICS

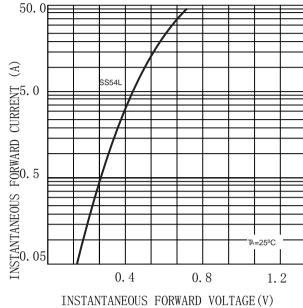


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

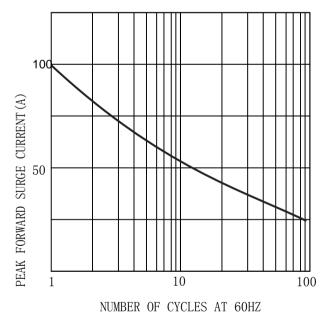
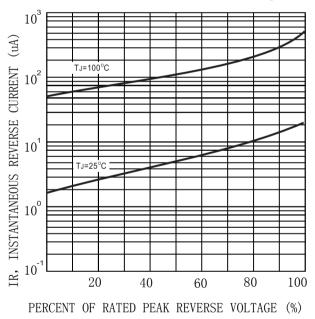


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION

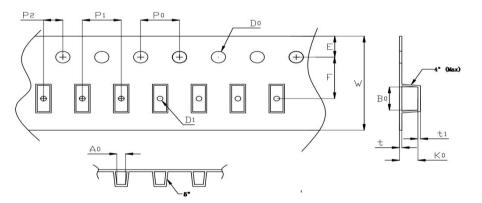


SS**= Logo
ss**= Marking Code

Print according to customer request

PACKING REQUIRMENTS

• Carrier tape packing



| ĺ | Specificati | Carrier | Ao | Во | Ко | Ро | W | t | Exiplain |
|---|-------------|-------------|-----------------|----------------|------------|-----------------|-----------------|------------|----------|
| ļ | ons | tape type | | | | | | | - |
| | SMAFL | Anti-static | 2.83 ± 0.10 | 4.9 ± 0.10 | 1.45± 0.05 | 4.00 ± 0.10 | 12.0 ± 0.10 | 0.23± 0.05 | |

覆盖胶带 (COVER TAPE)

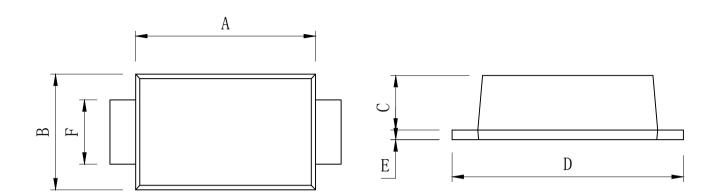
标签黏着面(仅一面)

| DEVICE TYPE | Tape width | 13"Reel | | | 7"Reel | | |
|----------------|---------------|--------------------|-----------------|--------------------|--------------------|-----------------|--------------------|
| | | Q'TY/REEL (pcs) | BOX/CAR TOON | Q'TY/REEL (pcs) | Q'TY/REEL (pcs) | BOX/CAR TOON | Q'TY/REEL (pcs) |
| SMAFL | 12mm | 10000 | 20 | 200000 | 3000 | 64 | 192000 |



Outline Dimensions

SMAFL



| SMAFL | | | | | |
|-------|------|------|-----|-----|--|
| DIM | INC | HES | MM | | |
| | MIN | MAX | MIN | MAX | |
| А | 0.13 | 0.15 | 3.2 | 3.8 | |
| В | 0.09 | 0.11 | 2.3 | 2.7 | |
| С | 0.03 | 0.05 | 0.8 | 1.2 | |
| D | 0.16 | 0.20 | 4 | 5 | |
| Е | / | 0.01 | / | 0.3 | |
| F | 0.04 | 0.08 | 1 | 2 | |



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