



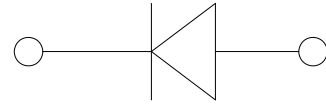
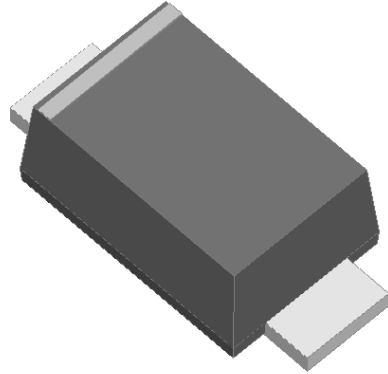
**Schottky Diodes**  
**Reverse Voltage-40to200v**  
**Forward current-2A**

**Features**

- Schottky chip
- Ideal for surface mounted applications
- Low forward voltage drop, Low power loss, high efficiency
- Plastic Case Material has UL Flammability

**Mechanical Data**

- Package: SMAF
- 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 specified)**

| Type Number   | SYMBOL      | SS24F     | SS26F | SS28F | SS310F | SS215F | SS220F | 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   | $I_{O(AV)}$ | 2.0       |       |       |        |        |        | A                |
| Peak Forward Surge Current<br>8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM        | 40.0      |       |       |        |        |        | A                |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25°C                               |             | 80.0      |       |       |        |        |        | A                |
| Current squared time<br>@1ms≤t≤8.3ms Tj=25°C, Rating of per diode   | $I^2t$      | 6.6       |       |       |        |        |        | A <sup>2</sup> S |
| Maximum Forward Voltage at 2.0A DC  | $V_{FM}$    | 0.55      | 0.75  | 0.85  |        | 0.92   |        | V                |
| Maximum Reverse Current TA = 25°C   | IR          | 0.1       |       | 0.05  |        |        |        | mA               |
| at Rated DC Blocking Voltage TA = 100°C   |             | 20        |       | 10    |        |        |        | mA               |
| Typical Thermal Resistance  | $R_{QJA}$   | 65.0      |       |       |        |        |        | °C/W             |
| Operating Junction Temperature Range  | $T_J$       | -55to+150 |       |       |        |        |        | °C               |
| Storage Temperature Range   | $T_{STG}$   | -55to+150 |       |       |        |        |        | °C               |



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

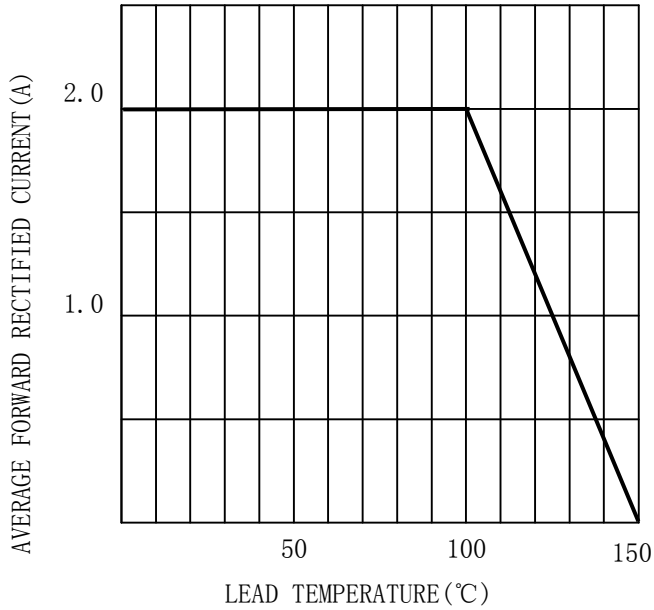


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

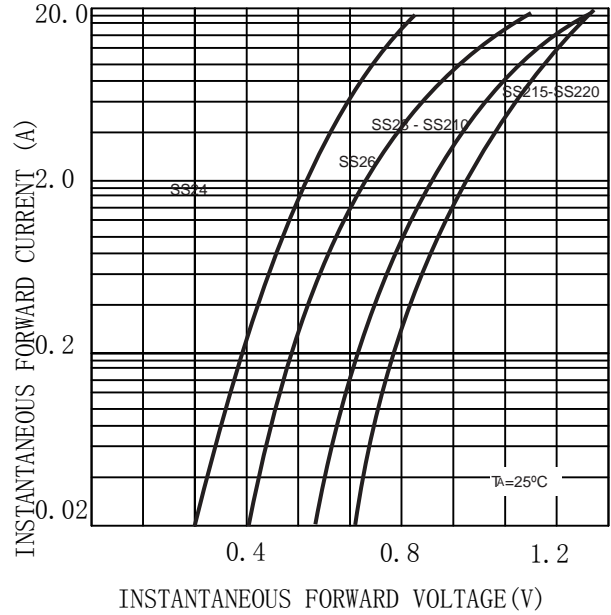


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

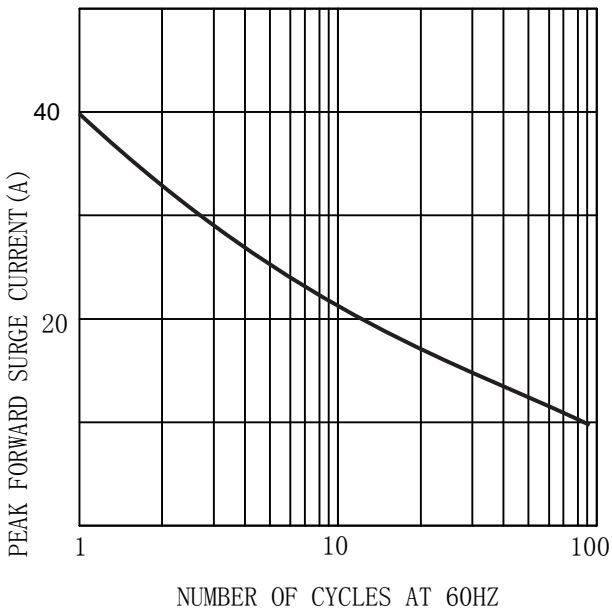
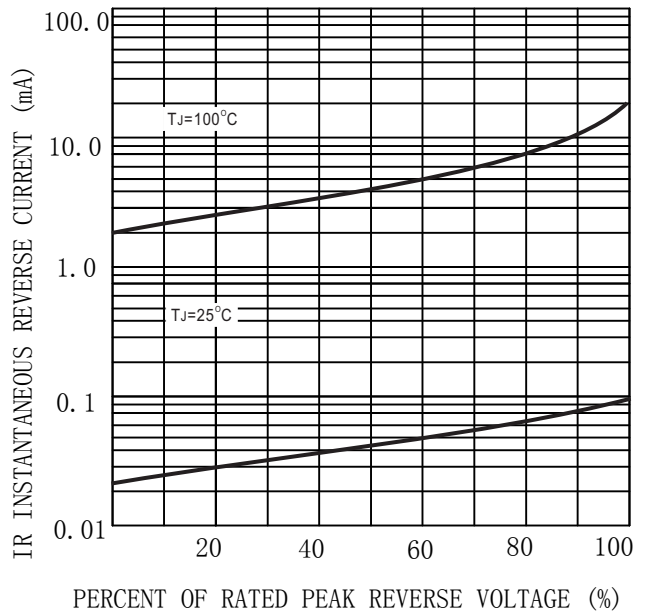



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION

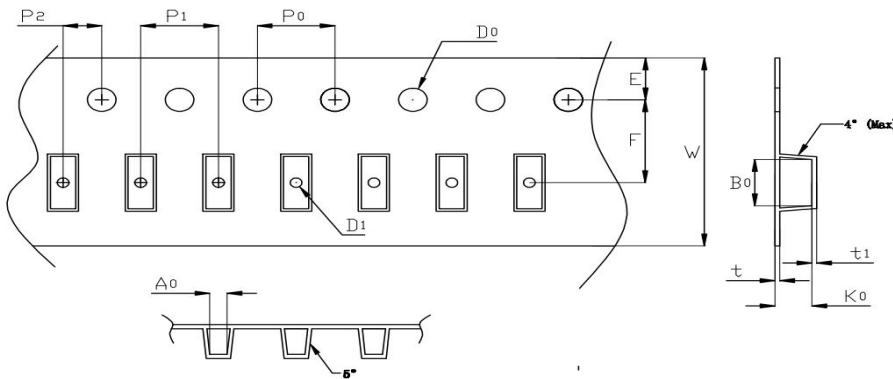


 = Logo  
 \*\*\*\* = Date Code Marking  
 SS\*\* = Marking Code

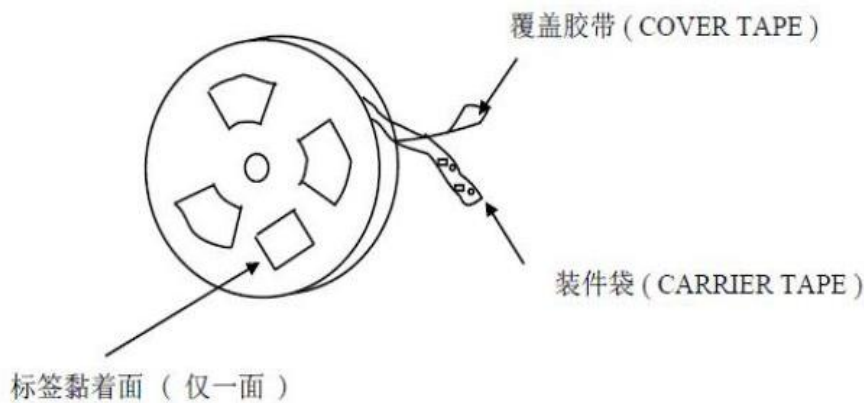
Print according to customer request

## PACKING REQUIRMENTS

### Carrier tape packing



| Specifications | Carrier tape type | Ao         | Bo        | Ko         | Po         | W          | t          | Explain |
|----------------|-------------------|------------|-----------|------------|------------|------------|------------|---------|
| SMAF           | 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 |         |

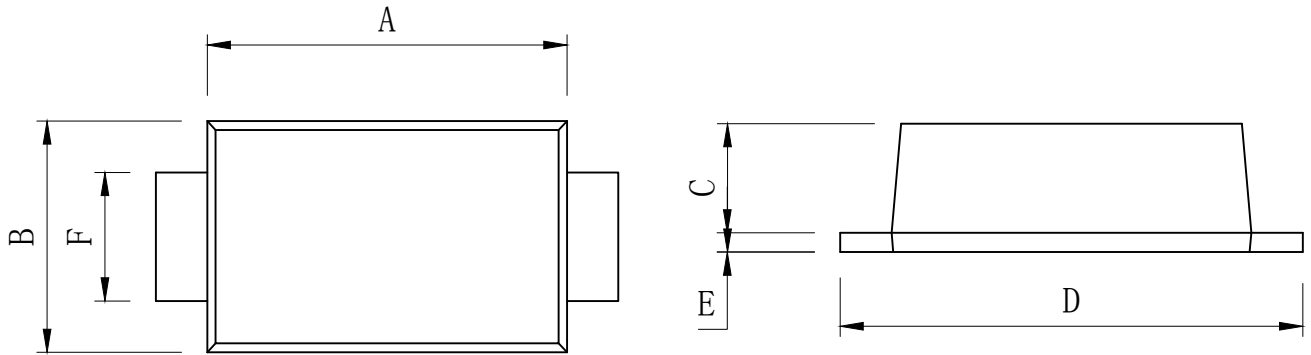


| DEVICE TYPE | Tape width | 13"Reel         |              |                 | 7"Reel          |              |                 |
|-------------|------------|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
|             |            | Q'TY/REEL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



## Outline Dimensions

### SMAF



| SMAF |         |      |     |     |
|------|---------|------|-----|-----|
| DIM  | INC HES |      | MM  |     |
|      | MIN     | MAX  | MIN | MAX |
| A    | 0.13    | 0.15 | 3.2 | 3.8 |
| B    | 0.09    | 0.11 | 2.3 | 2.7 |
| C    | 0.03    | 0.05 | 0.8 | 1.2 |
| D    | 0.16    | 0.20 | 4   | 5   |
| E    | /       | 0.01 | /   | 0.3 |
| F    | 0.04    | 0.08 | 1   | 2   |



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