



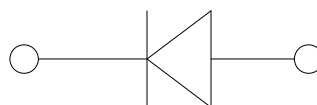
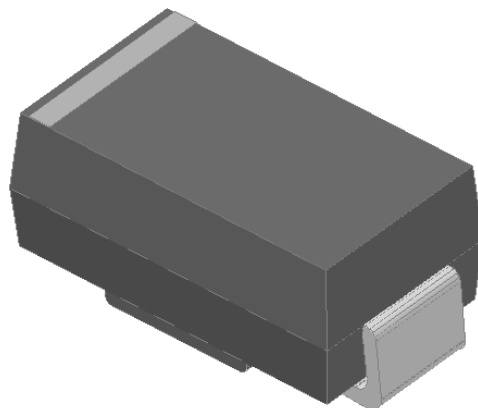
**Schottky Diodes**  
**Reverse Voltage-40to200v**  
**Forward current-3A**

**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: 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°C Unless otherwise specified)**

| Type Number                                                                                                 | SYMBOL           | SS34      | SS36 | SS38 | SS310 | SS315 | SS320 | Unit |
|-------------------------------------------------------------------------------------------------------------|------------------|-----------|------|------|-------|-------|-------|------|
| Maximum Recurrent Peak Reverse Voltage                                                                      | V <sub>RRM</sub> | 40        | 60   | 80   | 100   | 150   | 200   | V    |
| Maximum RMS Voltage                                                                                         | V <sub>RMS</sub> | 28        | 42   | 56   | 70    | 105   | 140   | V    |
| Maximum DC Blocking Voltage                                                                                 | V <sub>DC</sub>  | 40        | 60   | 80   | 100   | 150   | 200   | V    |
| Maximum Average Forward Rectified Current at TL = 100 °C                                                    | IO(AV)           | 3.0       |      |      |       |       |       | A    |
| Peak Forward Surge Current<br>8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM             | 60.0      |      |      |       |       |       | A    |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25°C                               |                  | 120.0     |      |      |       |       |       | A    |
| Current squared time<br>@1ms≤t≤8.3ms Tj=25°C , Rating of per diode                                          | I²t              | 14.9      |      |      |       |       |       | A²S  |
| Maximum Forward Voltage at 3.0A DC                                                                          | V <sub>FM</sub>  | 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                                                                    |                  | 10        |      | 5    |       |       |       | mA   |
| Typical Thermal Resistance                                                                                  | R <sub>QJA</sub> | 65.0      |      |      |       |       |       | °C/W |
| Operating Junction Temperature Range                                                                        | T <sub>J</sub>   | —55to+150 |      |      |       |       |       | °C   |
| Storage Temperature Range                                                                                   | T <sub>STG</sub> | —55to+150 |      |      |       |       |       | °C   |



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

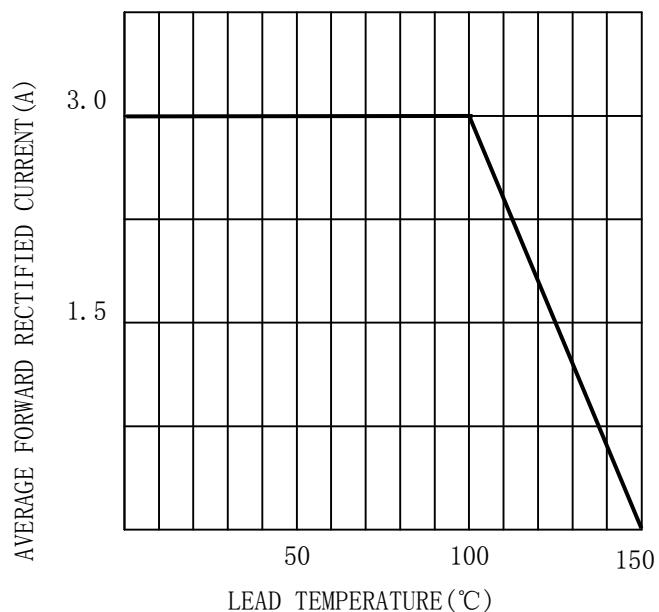


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

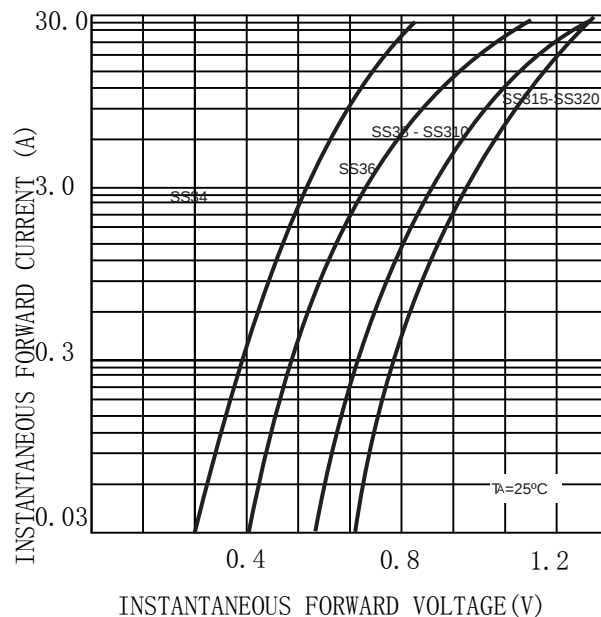


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

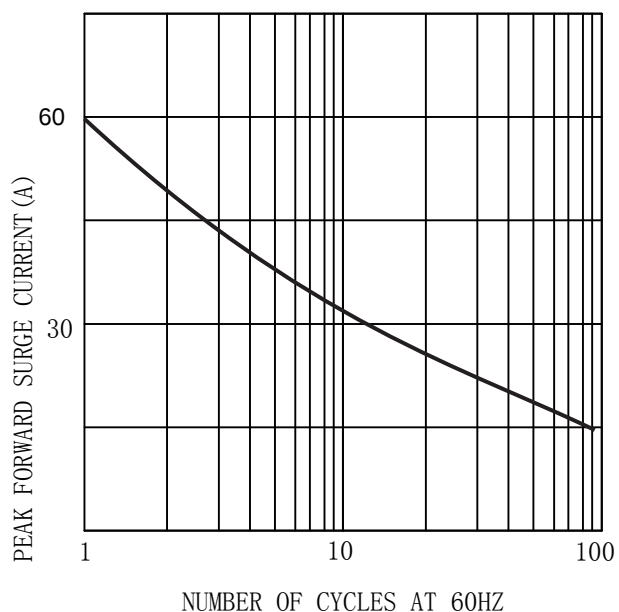
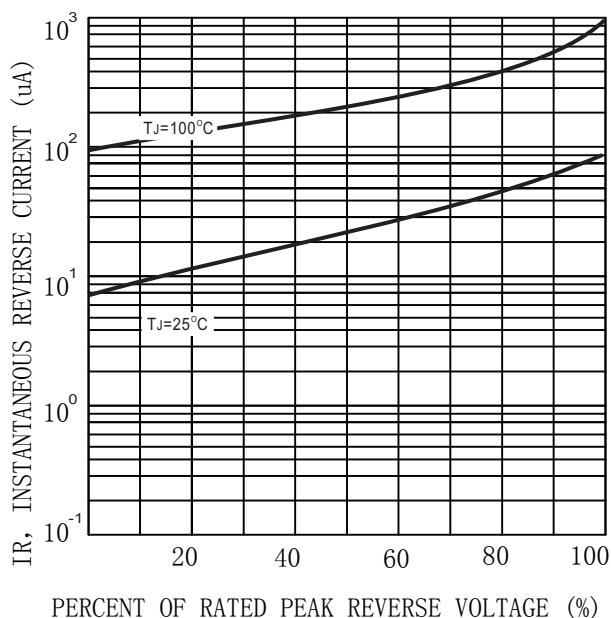


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



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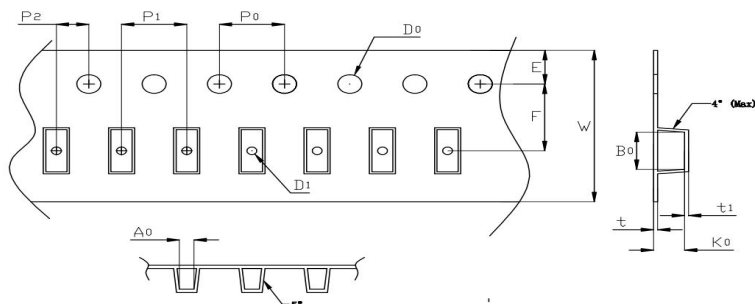
\*\*\*\*\* = Date Code Marking

SS\*\*\* = Marking Code

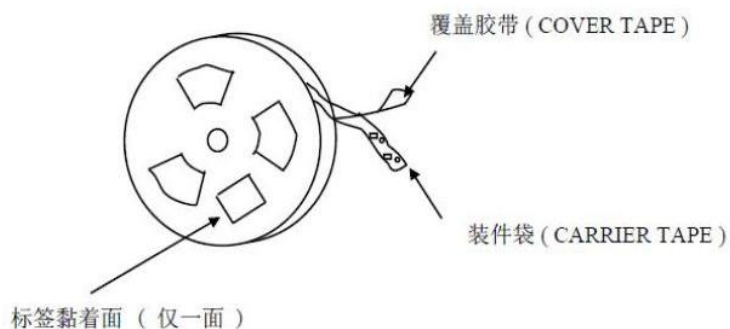
Print according to customer request

## PACKING REQUIRMENTS

- Carrier tape packing



| Specificati<br>ons | Carrier<br>tape type | Ao         | Bo         | Ko         | Po         | W          | t          | Explain |
|--------------------|----------------------|------------|------------|------------|------------|------------|------------|---------|
| 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 |         |

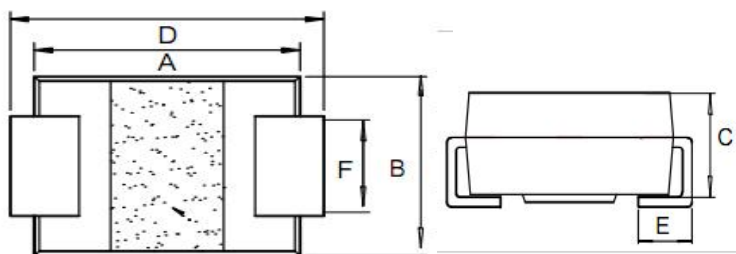


| DEVICE<br>TYPE | Tape<br>width | 11"Reel            |                 |                    | 11"Reel            |                 |                    |
|----------------|---------------|--------------------|-----------------|--------------------|--------------------|-----------------|--------------------|
|                |               | Q'TY/REEL<br>(pcs) | BOX/CAR<br>TOON | Q'TY/REEL<br>(pcs) | Q'TY/REEL<br>(pcs) | BOX/CAR<br>TOON | Q'TY/REEL<br>(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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