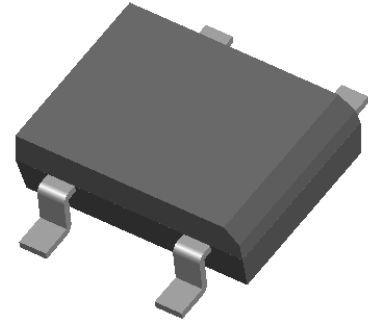




**Bridge Rectifiers**  
**Reverse Voltage-1000v**  
**Forward current-3A**

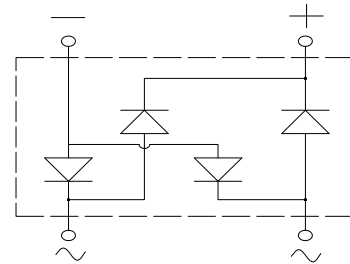
**Features**

- Glass passivated chip
- High surge current capability
- Ideal for surface mounted applications
- Low power loss, high efficiency
- Plastic Case Material has UL Flammability



**Mechanical Data**

- Package: DBS
- 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      | DB307S    | Umit             |
|---|-------------|-----------|------------------|
| Maximum Recurrent Peak Reverse Voltage  | $V_{RRM}$   | 1000      | V                |
| Maximum RMS Voltage   | $V_{RMS}$   | 700       | V                |
| Maximum DC Blocking Voltage   | $V_{DC}$    | 1000      | V                |
| Maximum Average Forward Rectified Current at TL = 100 °C  | $I_{O(AV)}$ | 3.0       | A                |
| Peak Forward Surge Current<br>8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated | IFSM        | 80.0      | A                |
| Forward Surge Current (Non-repetitive)<br>@1ms, square wave, 1 cycle, Tj=25°C                               |             | 160.0     | A                |
| Current squared time<br>@1ms≤t≤8.3ms Tj=25°C, Rating of per diode   | $I^2t$      | 26.6      | A <sup>2</sup> S |
| Maximum Forward Voltage at 3.0A DC  | $V_{FM}$    | 1.1       | V                |
| Maximum Reverse Current TA = 25°C   | IR          | 5         | uA               |
| at Rated DC Blocking Voltage TA = 100°C   |             | 100       |                  |
| Typical Thermal Resistance  | $R_{QJa}$   | 75.0      | °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

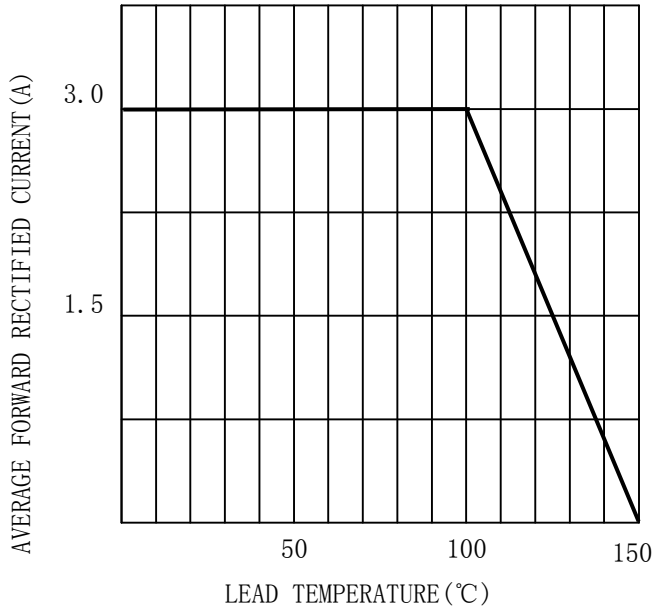


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

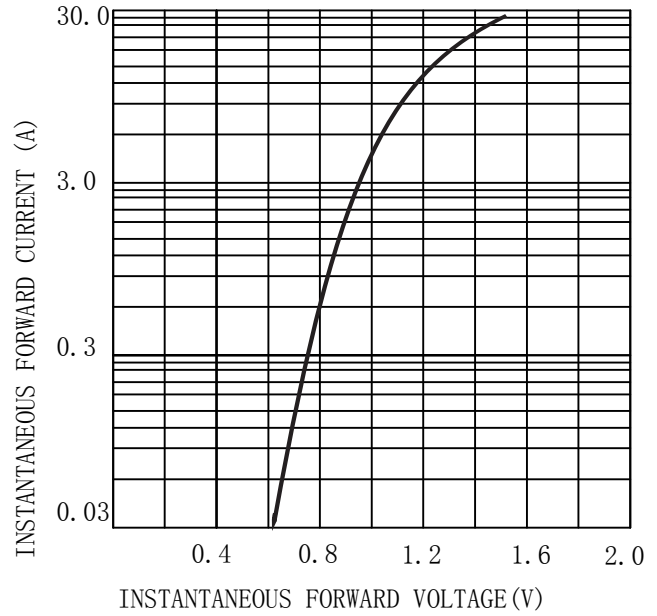


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

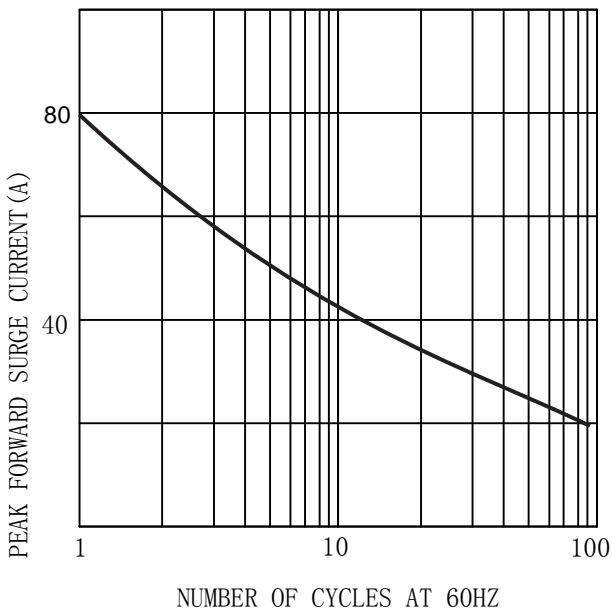
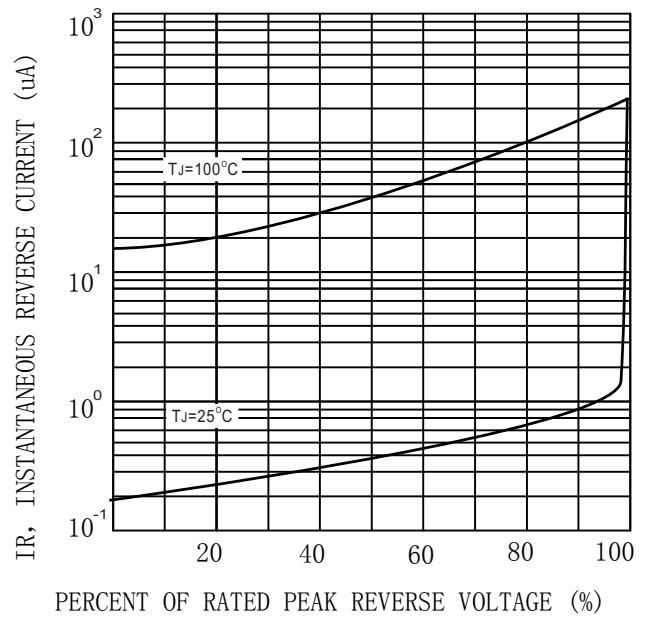
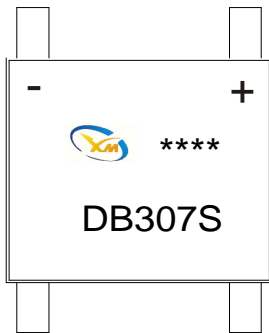


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION



= Logo

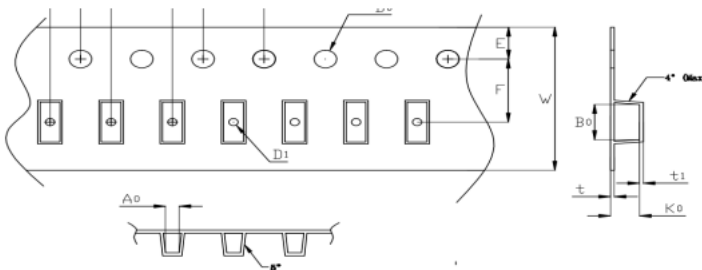
\*\*\*\* = Date Code Marking

DB307S = Marking Code

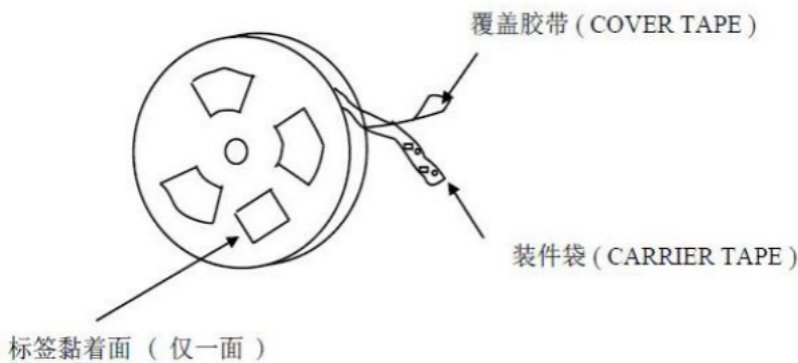
Print according to customer request

## PACKING REQUIRMENTS

- Carrier tape packing



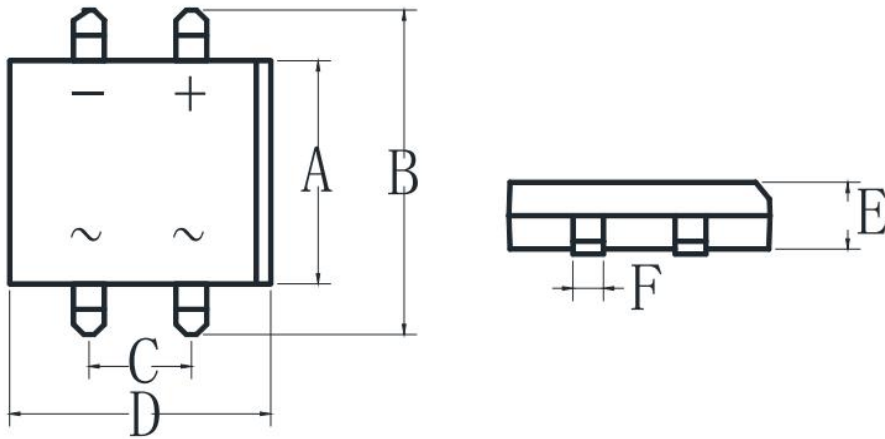
| Specifications | Carrier tape type | Ao         | Bo         | Ko         | Po         | W          | t1         | Explain |
|----------------|-------------------|------------|------------|------------|------------|------------|------------|---------|
| DBS            | Anti-static       | 8.70± 0.10 | 10.41±0.10 | 3.30± 0.10 | 4.00± 0.10 | 16.0± 0.30 | 0.25± 0.05 |         |



| DEVICE TYPE | Tape width | 13" Reel        |              |                 |
|-------------|------------|-----------------|--------------|-----------------|
|             |            | Q'TY/REEL (pcs) | BOX/CAR TOON | Q'TY/REEL (pcs) |
| DBS         | 16mm       | 1500            | 18           | 27000           |



## Outline Dimensions



| DBS |         |      |      |      |
|-----|---------|------|------|------|
| DIM | INC HES |      | MM   |      |
|     | MIN     | MAX  | MIN  | MAX  |
| A   | 0.24    | 0.26 | 6.10 | 6.50 |
| B   | 0.37    | 0.39 | 9.50 | 9.90 |
| C   | 0.19    | 0.20 | 4.80 | 5.20 |
| D   | 0.31    | 0.33 | 7.95 | 8.35 |
| E   | 0.09    | 0.11 | 2.30 | 2.70 |
| F   | 0.04    | 0.05 | 0.90 | 1.20 |



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