

查询1N5181供应商

捷多邦, 专业PCB打样工厂, 24小时

**Microsemi Corp.**

The diode experts

SANTA ANA, CA

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ALSO  
AVAILABLE IN  
SURFACE  
MOUNT

加急出货  
**1N3643 thru 1N3647**  
**1N4254 thru 1N4257**  
**1N5181 thru 1N5184**

## FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- LOWEST REVERSE LEAKAGE AVAILABLE
- LOWEST THERMAL RESISTANCE AVAILABLE
- MAXIMUM BREAKDOWN VOLTAGE PER DIE
- ABSOLUTE HIGH VOLTAGE / HIGH TEMPERATURE STABILITY
- MEET OR EXCEED REQUIREMENTS OF MIL-S-19500/389 (IN 5181 — IN 5184).
- 1N3644 THRU 1N3647 JAN, JANTX TYPES AVAILABLE PER MIL-S-19500/279

## MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C

Storage Temperature: -65°C to +175°C

## ELECTRICAL CHARACTERISTICS

| TYPE       | WORKING<br>PEAK<br>REVERSE<br>VOLTAGE<br>V <sub>RRM</sub> | AVERAGE<br>RECTIFIED<br>CURRENT<br>I <sub>O</sub> |       | FORWARD<br>VOLTAGE<br>(MAX.)<br>V <sub>F</sub><br>(SEE NOTES) | REVERSE<br>CURRENT<br>(MAX.)<br>I <sub>R</sub> @ V <sub>RRM</sub> |      |       |       | SURGE<br>CURRENT<br>(MAX.) |
|------------|-----------------------------------------------------------|---------------------------------------------------|-------|---------------------------------------------------------------|-------------------------------------------------------------------|------|-------|-------|----------------------------|
|            |                                                           |                                                   |       |                                                               |                                                                   |      |       |       |                            |
|            |                                                           | mA                                                |       |                                                               | μA                                                                |      |       |       |                            |
|            | VOLTS                                                     | 55°C                                              | 100°C | VOLTS                                                         | 25°C                                                              | 55°C | 125°C | 175°C | AMPS                       |
| 1N3643     | 1000                                                      | 250                                               | 150   | 5.0(1)                                                        | 5                                                                 | —    | —     | —     | 14                         |
| JAN 1N3644 | 1500                                                      | 250                                               | 150   | 5.0(1)                                                        | 5                                                                 | —    | —     | —     | 14                         |
| JAN 1N3645 | 2000                                                      | 250                                               | 150   | 5.0(1)                                                        | 5                                                                 | —    | —     | —     | 14                         |
| JAN 1N3646 | 2500                                                      | 250                                               | 150   | 5.0(1)                                                        | 5                                                                 | —    | —     | —     | 14                         |
| JAN 1N3647 | 3000                                                      | 250                                               | 150   | 5.0(1)                                                        | 5                                                                 | —    | —     | —     | 14                         |
| 1N4254     | 1500                                                      | 250                                               | 150   | 3.5(2)                                                        | 1                                                                 | —    | 20    | —     | 10                         |
| 1N4255     | 2000                                                      | 250                                               | 150   | 3.5(2)                                                        | 1                                                                 | —    | 20    | —     | 10                         |
| 1N4256     | 2500                                                      | 250                                               | 150   | 3.5(2)                                                        | 1                                                                 | —    | 20    | —     | 10                         |
| 1N4257     | 3000                                                      | 250                                               | 150   | 3.5(2)                                                        | 1                                                                 | —    | 20    | —     | 10                         |
| 1N5181     | 4000                                                      | 100                                               | 60    | 10(2)                                                         | —                                                                 | 5    | —     | 1000  | 4                          |
| 1N5182     | 5000                                                      | 100                                               | 60    | 10(2)                                                         | —                                                                 | 5    | —     | 1000  | 4                          |
| 1N5183     | 7500                                                      | 100                                               | 60    | 10(2)                                                         | —                                                                 | 5    | —     | 1000  | 4                          |
| 1N5184     | 10,000                                                    | 100                                               | 60    | 10(2)                                                         | —                                                                 | 5    | —     | 1000  | 4                          |

NOTE 1: V<sub>F</sub> @ 250mA

NOTE 2: V<sub>F</sub> @ 100mA

## HIGH VOLTAGE RECTIFIERS

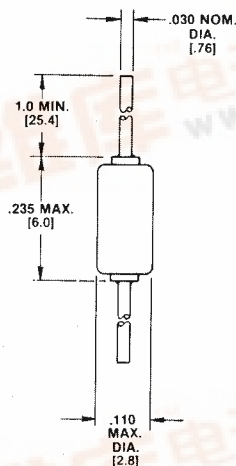


FIGURE 1  
Package S

## MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed hard glass.

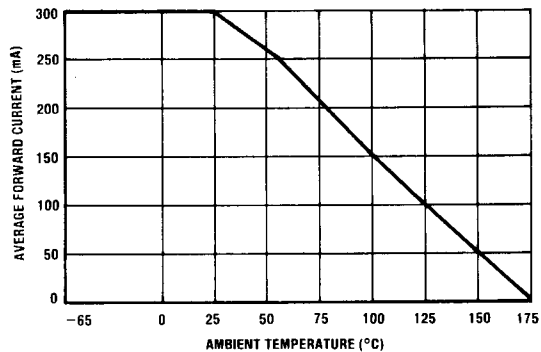
LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

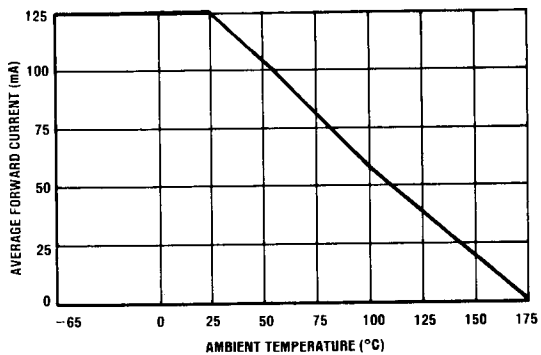
POLARITY: Cathode band.



**1N3643 thru 1N3647**  
**1N4254 thru 1N4257**  
**1N5181 thru 1N5184**



**FIGURE 2**  
**HVE/HVE 10-30/1N3643-47**



**FIGURE 3**  
**HVE/HVE 40-100/1N5181-84**