

COMPUTER DIODE

Switching

1N4149, 1N4151, 1N4154
 1N4446, 1N4447, 1N4448
 1N4449

FEATURES

- Metallurgical Bond
- Planar Passivated
- DO-35

DESCRIPTION

This series offers Metallurgical Bonding and is very popular for general purpose switching applications.

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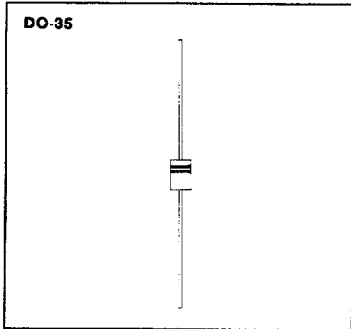
ABSOLUTE MAXIMUM RATINGS, AT 25°C

| | 1N4149 | 1N4151 | 1N4154 | 1N4446 | 1N4447 | 1N4448 | 1N4449 |
|-----------------------------|-----------------|--------|--------|--------|--------|--------|--------|
| Peak Reverse Voltage | .75V | .75V | .35V | .75V | .75V | .75V | .75V |
| Average Rectified Current | .200mA dc | | | | | | |
| Surge Current, 8.3 ms | .500mA | | | | | | |
| Operating Temperature Range | -65°C to +150°C | | | | | | |
| Storage Temperature Range | -65°C to +200°C | | | | | | |

ELECTRICAL SPECIFICATIONS (at 25°C unless noted)

| Type | Peak Inverse Voltage | Forward Voltage | | | | | Reverse Current V_R nA | Reverse Current @ 150°C V_R μ A | Junction Capacitance @ 0V | Reverse Recovery Time t_{RR} |
|--------|----------------------|-----------------|--------|--------|--------|---------|-----------------------------|---|------------------------------|-----------------------------------|
| | | @ 10mA | @ 20mA | @ 30mA | @ 50mA | @ 100mA | | | | |
| 1N4149 | 75 | 1.0 | — | — | — | — | 20 25 | 20 50 | 4pF | 4nS |
| 1N4151 | 75 | — | — | — | 1.0 | — | 50 50 | 50 50 | 4pF | 2nS |
| 1N4154 | 35 | — | — | 1.0 | — | — | 25 100 | 25 100 | 4pF | 2nS |
| 1N4446 | 75 | — | 1.0 | — | — | — | 20 25 | 20 50 | 4pF | 4nS |
| 1N4447 | 75 | — | 1.0 | — | — | — | 20 25 | 20 50 | 4pF | 4nS |
| 1N4448 | 75 | — | — | — | — | 1.0 | 20 25 | 20 50 | 4pF | 4nS |
| 1N4449 | 75 | — | — | 1.0 | — | — | 20 25 | 20 50 | 2pF | 4nS |

MECHANICAL SPECIFICATIONS



Microsemi Corp.
Watertown
The diode experts