

# COMPUTER DIODE

150mA

Switching Diode

1N4153, JAN, JANTX & JANTXV 1N4153  
1N4534, JAN, JANTX & JANTXV 1N4534

## FEATURES

- Metallurgical Bond
- Qualified to MIL-S-19500/337
- Planar Passivated Chip
- DO-34 or DO-35 Package

## DESCRIPTION

This device is particularly suited to applications where tightly controlled forward characteristics and fast recovery time are important.

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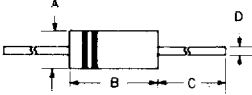
## ABSOLUTE MAXIMUM RATINGS, AT 25°C

|                                   |                 |
|-----------------------------------|-----------------|
| Reverse Breakdown Voltage .....   | 75V             |
| Peak Working Voltage .....        | 50V             |
| Average Output Current* .....     | 150mA           |
| Surge Current, 1 $\mu$ s .....    | 2.0A            |
| Operating Temperature Range ..... | -65°C to +200°C |
| Storage Temperature Range .....   | -65°C to +200°C |

\*Derate 0.86mA/c.°C for T<sub>a</sub> above 25°C.

## MECHANICAL SPECIFICATIONS


**J, JTX & JTXV 1N4153**  
**J, JTX & JTXV 1N4534**



| J, JTX & JTXV 1N4534 |             | J, JTX & JTXV 1N4153 |                     |
|----------------------|-------------|----------------------|---------------------|
| INCHES               | MILLIMETERS | INCHES               | MILLIMETERS         |
| A .050-.075          | 1.27-1.91   | A .056-.075          | 1.42-1.91           |
| B .080-.120          | 2.03-3.05   | B .140-.180          | 3.56-4.57           |
| C 1.0-1.5            | 25.4-38.1   | C 1.0 MIN.-1.5 MAX.  | 25.4 MIN.-38.1 MAX. |
| D .018-.022          | .46-.56     | D .018-.022          | .46-.56             |

**DO-34**  
**1N4534**

**DO-35**  
**1N4153**



**ELECTRICAL SPECIFICATIONS (at 25°C unless noted)**

| Limit | $V_{F1}$<br>$I_F = 100 \mu\text{A dc}$ | $V_{F2}$<br>$I_F = 250 \mu\text{A dc}$ | $V_{F3}$<br>$I_F = 1 \text{ mA dc}$ | $V_{F4}$<br>$I_F = 2 \text{ mA dc}$ | $V_{F5}$<br>$I_F = 10 \text{ mA dc}$ | $V_{F6}$<br>$I_F = 20 \text{ mA dc}$ |
|-------|--|--|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| Min   | 0.490Vdc                               | 0.530Vdc                               | 0.590Vdc                            | 0.620Vdc                            | 0.700Vdc                             | 0.740Vdc                             |
| Max   | 0.550Vdc                               | 0.590Vdc                               | 0.670Vdc                            | U./UUVdc                            | 0.810Vdc                             | 0.860Vdc                             |

| Limit | $I_R$<br>$V_R = 50\text{V}$ | $I_{R0}$<br>$V_R = 50\text{V}$<br>$T_A = 150^\circ\text{C}$ | C<br>$V_R = 0$<br>$f = 1\text{MHz}$ | $t_{rr}$<br>$I_F = I_R = 10\text{mA dc}$<br>$R_L = 100 \text{ ohms}$ | Reverse Breakdown Voltage<br>$I_R = 5.0 \mu\text{A dc}$ |
|-------|-----------------------------|---|-------------------------------------|--|---|
| Min   | —                           | —   | —                                   | —  | 75V   |
| Max   | 0.05 $\mu\text{A dc}$       | 50 $\mu\text{A dc}$   | 2.0pF                               | 4ns  | —   |

