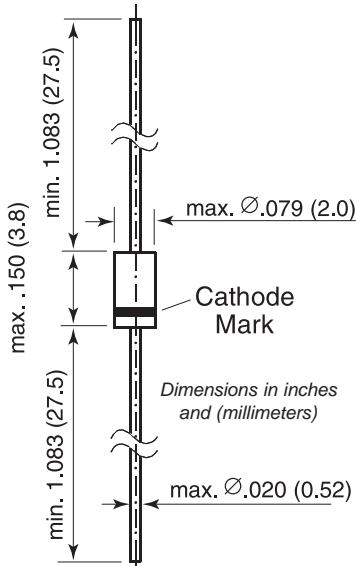


## Small-Signal Diode

Reverse Voltage 100V  
Forward Current 150mA**DO-204AH (DO-35 Glass)**

### Features

- Silicon Epitaxial Planar Diode
- Fast switching diode

### Mechanical Data

**Case:** DO-35 Glass Case**Weight:** approx. 0.13g**Packaging Codes/Options:**F2/10K per Ammo tape (52mm), 50K/box  
F3/10K per 13" reel (52mm tape), 50K/box

### Maximum Ratings and Thermal Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

| Parameter  | Symbol          | Limit       | Unit               |
|--|-----------------|-------------|--------------------|
| Reverse voltage  | $V_R$           | 75          | V                  |
| Peak reverse voltage   | $V_{RM}$        | 100         | V                  |
| Maximum average rectified current half wave rectification with resistive load at $T_{amb} = 25^\circ\text{C}$ and $f \geq 50\text{Hz}^{(1)}$ | $I_{F(AV)}$     | 150         | mA                 |
| Surge forward current at $t < 1\text{s}$ and $T_j = 25^\circ\text{C}$  | $I_{FSM}$       | 500         | mA                 |
| Maximum power dissipation at $T_{amb} = 25^\circ\text{C}^{(1)}$  | $P_{tot}$       | 500         | mW                 |
| Thermal resistance junction to ambient air <sup>(1)</sup>  | $R_{\theta JA}$ | 350         | $^\circ\text{C/W}$ |
| Maximum junction temperature   | $T_J$           | 175         | $^\circ\text{C}$   |
| Storage temperature range  | $T_S$           | -65 to +175 | $^\circ\text{C}$   |

### Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

| Parameter   | Symbol      | Min. | Max.     | Unit                |
|---|-------------|------|----------|---------------------|
| Maximum forward voltage drop at $I_F = 10\text{mA}$   | $V_F$       | -    | 1.0      | V                   |
| Leakage current<br>at $V_R = 50\text{V}$<br>at $V_R = 75\text{V}$   | $I_R$       | -    | 100<br>5 | nA<br>$\mu\text{A}$ |
| Reverse breakdown voltage tested with 100 $\mu\text{A}$ pulses  | $V_{(BR)R}$ | 100  | -        | V                   |
| Capacitance at $V_F = V_R = 0\text{V}$  | $C_{tot}$   | -    | 2        | pF                  |
| Reverse recovery time<br>from $I_F = 10\text{mA}$ to $I_R = 1\text{mA}$ , $V_R = 6\text{V}$ , $R_L = 100\Omega$ | $t_{rr}$    | -    | 4        | ns                  |
| Rectification efficiency at $f = 100\text{MHz}$ , $V_{RF} = 2\text{V}$  | $\eta_v$    | 0.45 | -        | -                   |

**Note:**

(1) Valid provided that leads at a distance of 8mm from case are kept at ambient temperature

## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

