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1N34A Point Contact Germanium Diode

Description:

The 1N34A is a point contact diode in a DO7 type package employing N-form Germanium and gives an efficient and excellent linearity when used in TV image detection, FM detection, radio AM detection, etc.

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| | |
|---|------------------------------------|
| Peak Reverse Voltage, V_{RM} | 45V |
| Reverse Voltage DC, V_R | 20V |
| Peak Forward Current, I_{FM} | 150mA |
| Average Rectified Output Current, I_O | 50mA |
| Surge Forward Current, I_{surge} | 500mA |
| Operating Junction Temperature, T_J | $+75^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -55° to $+75^\circ\text{C}$ |

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------|--------|---|-----|-----|-----|---------------|
| Forward Current | I_F | $V_F = 1V$ | 4 | - | - | mA |
| Reverse Current | I_R | $V_R = 10V$ | - | - | 50 | μA |
| Junction Capacitance | C_j | $F = 1\text{Mhz}, V = -1V$ | - | - | 1 | pF |
| Rectification Efficiency | η | $V_i = 2V_{rms}, = 5K\Omega, C = 20\text{pF}, f = 40\text{MHz}$ | 55 | - | - | % |

