

Electrical Specifications @ 25°C (MA4P1250)

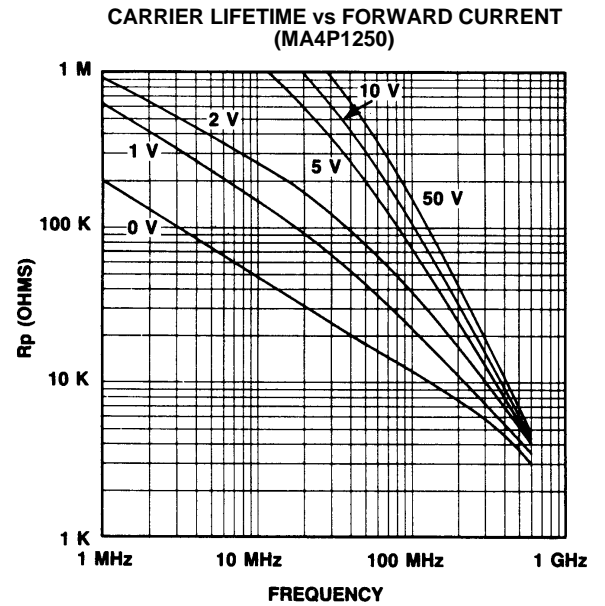
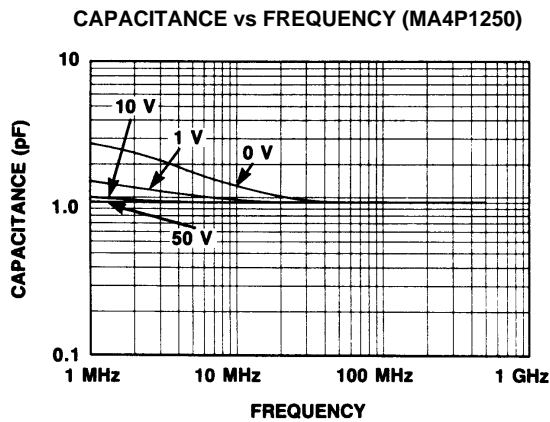
| Parameter | Minimum | Typical | Maximum | Unit | Condition |
|---|---------|---------|---------|------|-------------------------------------|
| Series Resistance | — | 0.5 | 0.75 | Ω | F = 100 MHz I = 50 mA |
| Capacitance | — | 0.9 | 1.2 | pF | F = 1 MHz V = 50 V |
| Parallel Resistance | 5 K | 10 K | — | Ω | F = 100 MHz V = 0 V |
| Carrier Lifetime | 2.0 | 4.0 | — | μs | I = 10 mA |
| Forward Bias Harmonic Distortion (R _a ^{2a} , R _a ^{3a}) | 80 | 90 | — | dBc | F = 100 MHz P = 30W I = 50 mA |
| Reverse Bias Harmonic Distortion (R _a ^{2a} , R _a ^{3a}) | 60 | 70 | — | dBc | F = 100 MHz P = 0 dBm V = 0 V |
| Voltage Rating | 50 | — | — | V | I = 10 μA |
| Forward Voltage | — | 1.0 | — | V | I = 50 mA |

* Available only in case style 1072.

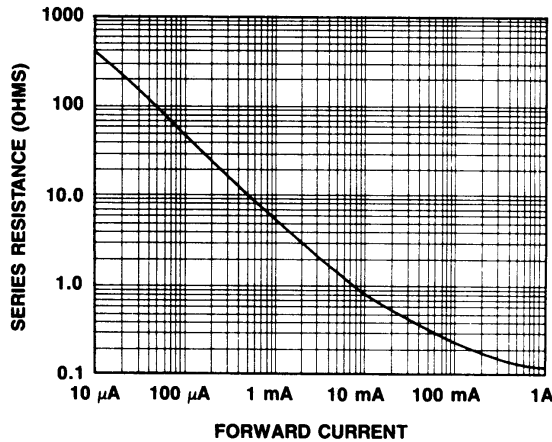
Absolute Maximum Ratings @ 25°C

| Parameter | Absolute Maximum |
|--------------------------|------------------|
| Voltage | 50 Volts |
| Operating Temperature | -65°C to +175°C |
| Storage Temperature | -65°C to +175°C |
| Power Dissipation | |
| Free Air | 1.5 Watts |
| Contact Surfaces @ +25°C | 4.0 Watts |

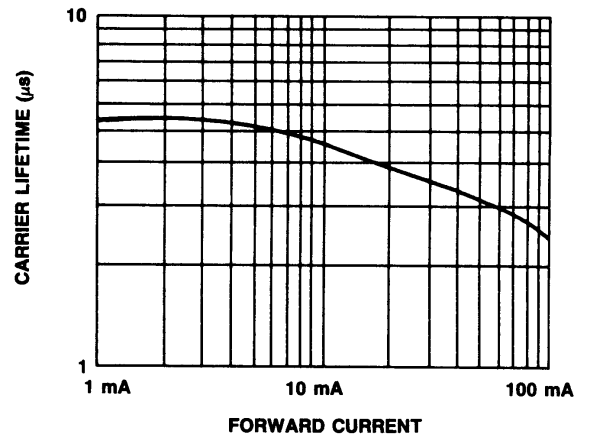
Typical Performance Curves



SERIES RESISTANCE AT 100 MHz vs FORWARD CURRENT (MA4P1250)



PARALLEL RESISTANCE vs FREQUENCY AND REVERSE BIAS (MA4P1250)



Specifications Subject to Change Without Notice.

MA4P1450 PIN Diodes for High Volume Applications
Electrical Specifications @ 25°C

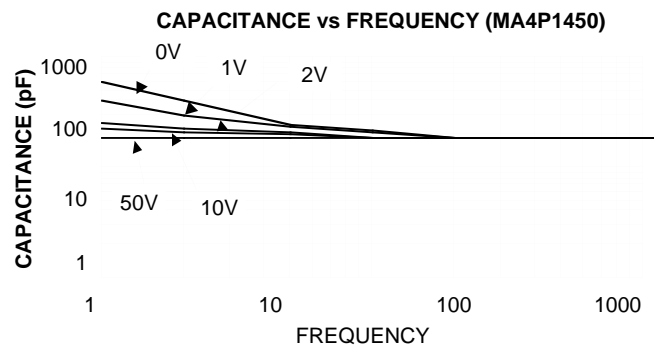
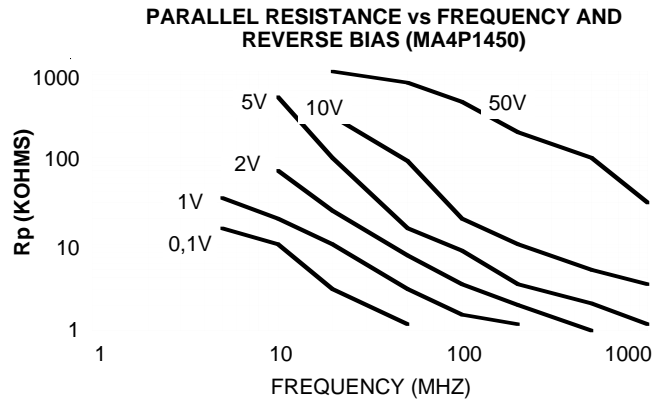
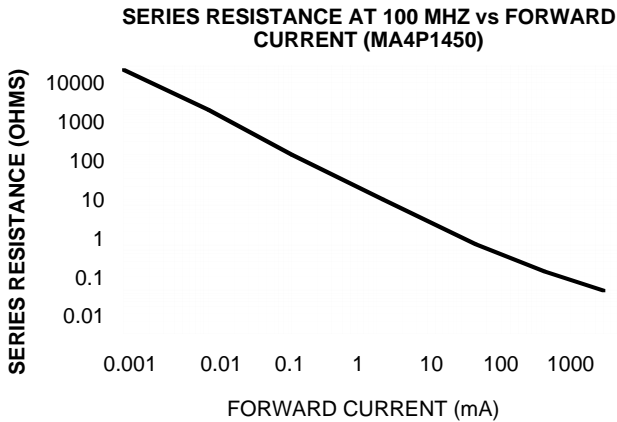
| Parameter | Minimum | Typical | Maximum | Unit | Condition |
|--|---------|---------|---------|---------|---|
| Series Resistance | — | 0.5 | 0.75 | Ohms | $I_F = 50 \text{ mA}$ $F = 100 \text{ MHz}$ |
| Capacitance | — | 1.8 | 2.5 | pF | $F = 1 \text{ MHz}$ $V_R = 0$ |
| Parallel Resistance | 5 K | 10 K | — | ∅ | $F = 100 \text{ MHz}$ $V_R = 0$ |
| Carrier Lifetime | 4 | 6 | — | μS | $I_F = 10 \text{ mA}$ |
| Forward Bias Harmonic Distortion (R_{2a} , R_{3a}) | 80 | 90 | — | dBc | $F = 100 \text{ MHz}$ $P = 30 \text{ W}$ $I_F = 100 \text{ mA}$ |
| Reverse Bias Harmonic Distortion (R_{2a} , R_{3a}) | 60 | 70 | — | dBc | $F = 100 \text{ MHz}$ $P = 0 \text{ dBm}$ $V = 0 \text{ Volts}$ |
| Voltage Rating | 50 | — | — | Volts | $I_V = 10 \text{ mA}$ |
| Forward Voltage | 1.0 | — | — | — | 100 mA |
| Thermal Resistance Junction Case $R_{TH(I-C)}$ | — | 12.5 | 15 | °C/Watt | — |

Note: Available only in case style 1091.

Absolute Maximum Ratings @ 25°C

| Parameter | Absolute Maximum |
|--------------------------|------------------|
| Operating Temperature | -65°C to +175°C |
| Storage Temperature | -65°C to +175°C |
| DC Reverse Voltage | 50 Volts |
| Power Dissipation | |
| Free Air | 1.5 Watts |
| Contact Surfaces @ +25°C | 4.0 Watts |

Typical Performance Curves



Specifications Subject to Change Without Notice.