



6 Lake Street  
PO Box 1436  
Lawrence, MA  
USA 01841

Telephone (617) 681-0392 • TeleFax (617) 681-9135 • Telex 928377

## GOLD BONDED DIODES

TYPE 1N277

**FEATURES**

- Low forward voltage drop
  - low power consumption
- Thirty years of proven reliability
  - one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

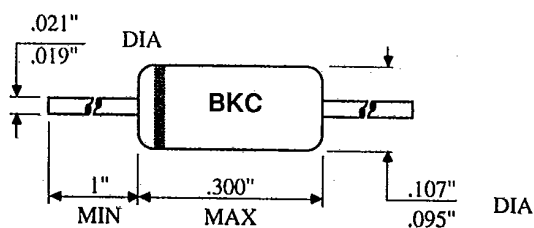
### ABSOLUTE MAXIMUM RATINGS

|                             |               |           |
|-----------------------------|---------------|-----------|
| Peak Inverse Voltage        | 110V          | @ 25 °C   |
| Peak Forward Current        | 500mA         | unless    |
| Operating Temperature Range | -65°C to 85°C | otherwise |
| Average Power Dissipation   | 80mW          | specified |

### ELECTRICAL CHARACTERISTICS

|                      | Symbol         | Conditions | Min. | Max. | Unit | T °C |
|----------------------|----------------|------------|------|------|------|------|
| Peak Inverse Voltage | PIV            | 1mA        | 110  |      | V    | 25°  |
| Inverse Current      | I <sub>r</sub> | 10V        |      | 75   | uA   | 75°  |
| Inverse Current      | I <sub>r</sub> | 50V        |      | 250  | uA   | 75°  |
| Forward Voltage      | V <sub>f</sub> | 100mA      |      | 1.0  | V    | 25°  |

### MECHANICAL



Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N278

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
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Telephone (617) 681-0392  
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BKC International  
Electronics Inc.

**FEATURES**

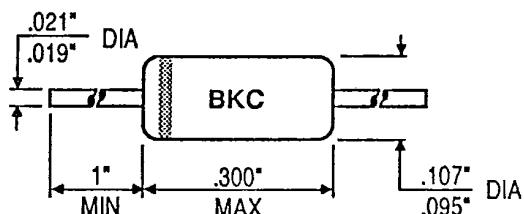
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 60  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 125 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 20 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

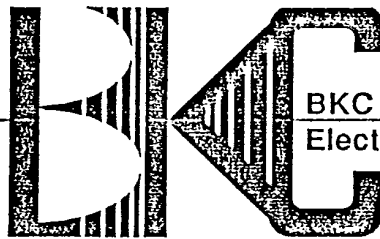
Type No. 1N279

T-01-07

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**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

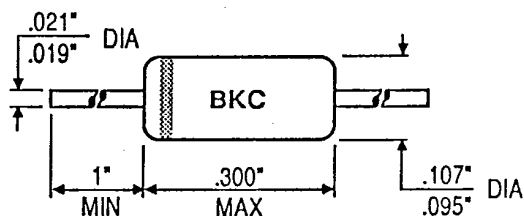
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 30 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 30  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 20 V       |     | 200 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N281

T-01-07

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**FEATURES**

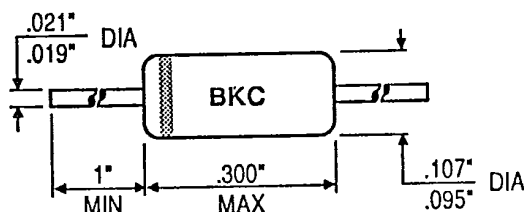
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 30  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 500 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N283

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**FEATURES**

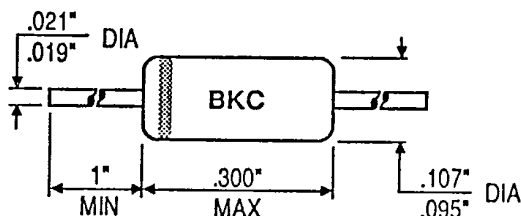
- Low forward voltage drop—low power consumption
- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 25 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 25  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 20  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 200 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N287

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**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

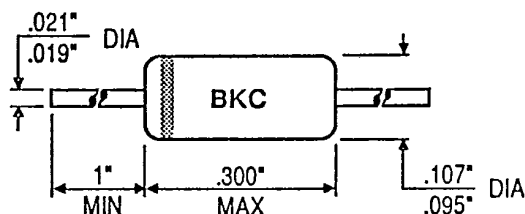
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max  | Unit | T °C  |
|----------------------|----------------|------------|-----|------|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 60  |      | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 1500 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 20 mA      |     | 1    | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

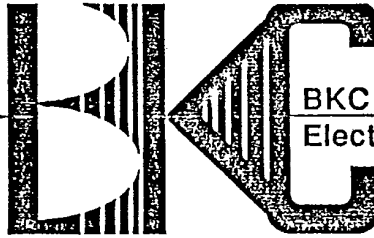
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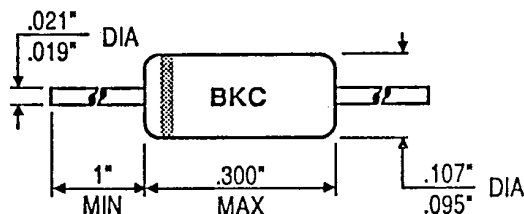
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 85 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 85  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 350 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 40 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

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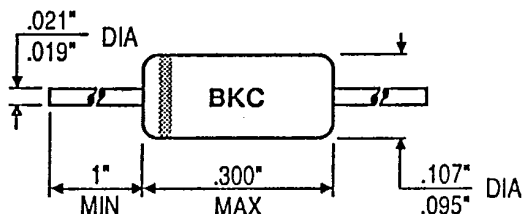
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Very low noise level  
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**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 85 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 85  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 50  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 20 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

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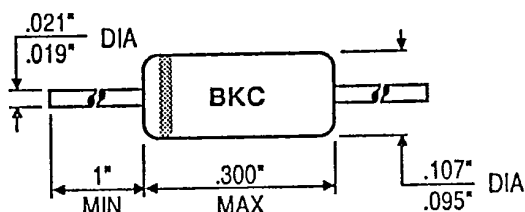
Low forward voltage drop—low power consumption  
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Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 100 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

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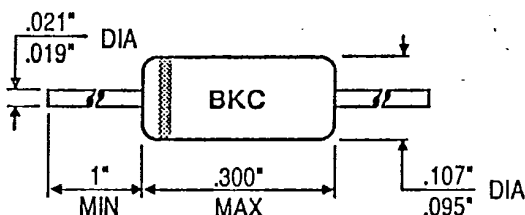
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Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 100 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 40 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N292

T-01-07

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**FEATURES**

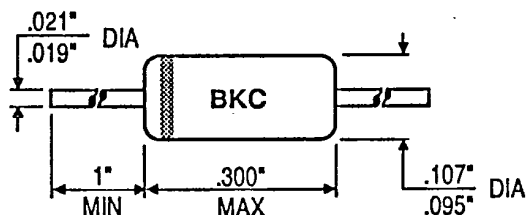
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 200 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

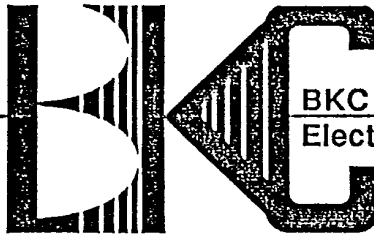
Type No. 1N294

T-01-07

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**FEATURES**

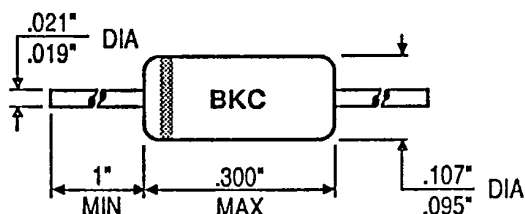
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 70 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 70  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 10  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 800 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N294A

T-01-07

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**FEATURES**

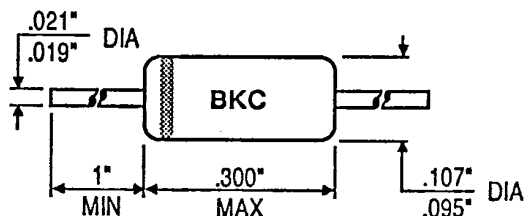
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Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 70 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 70  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 10  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N297

T-01-07

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**FEATURES**

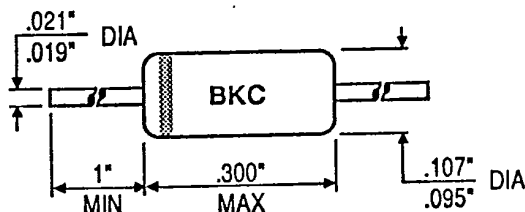
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 80 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 80  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 5 V        |     | 10  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 100 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 3.5 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N297A

T-01-07

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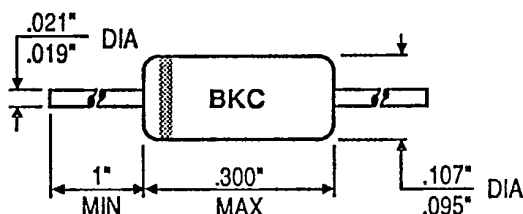
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Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 80 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 80  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 5 V        |     | 10  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 3.5 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N298

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BKC International  
Electronics Inc.

**FEATURES**

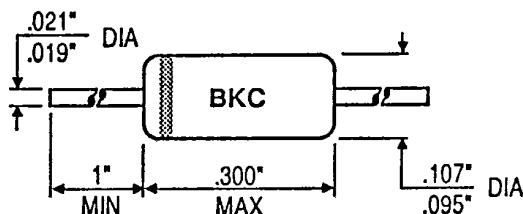
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 70 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 70  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 40 V       |     | 250 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 30 mA      |     | 2   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N298A

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

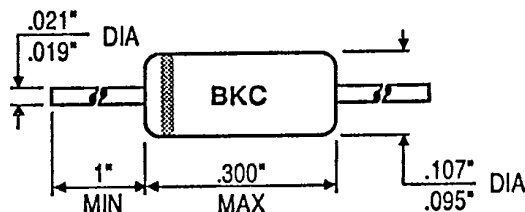
**Low forward voltage drop**—low power consumption  
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)  
**Very low noise level**  
**Metallurgically bonded**

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 30 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 30  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 40 V       |     | 250 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 30 mA      |     | 2   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N314

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

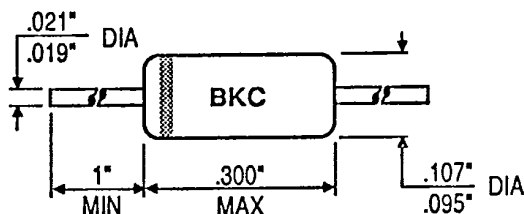
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 50  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 15 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N355

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Electronics Inc.

**FEATURES**

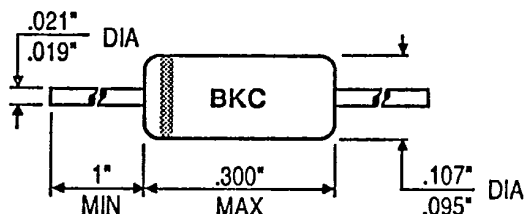
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 100 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 100 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 10  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 50  | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 4 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N367

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

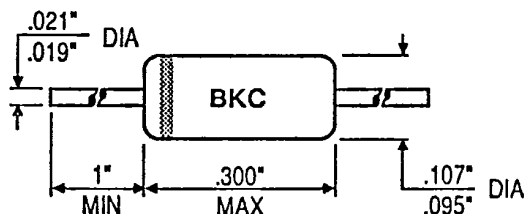
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 15 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 15  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | V          |     |     | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 20 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N417

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

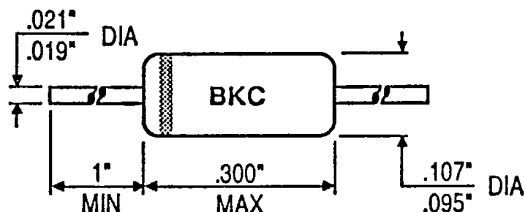
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max  | Unit | T °C  |
|----------------------|-----------------|------------|-----|------|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 60  |      | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | V          |     |      | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 5 mA       |     | 3.54 | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300  |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N418

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

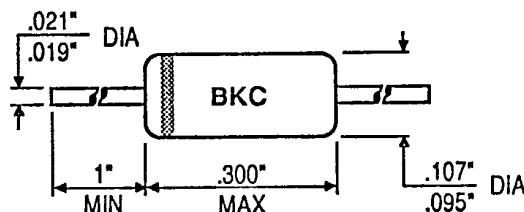
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 60  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | V          |     |     | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 7 mA       |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to 25 Ω.

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N419

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

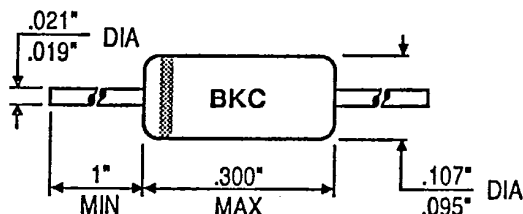
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 80 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 80  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 90 V       |     | 180 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 125 mA     |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N447

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

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TeleFax (617) 681-9135  
Telex 928377



**BKC International  
Electronics Inc.**

**FEATURES**

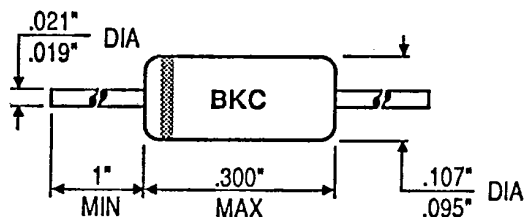
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 20  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 60  | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 25 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N448

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

Telephone (617) 681-0392  
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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

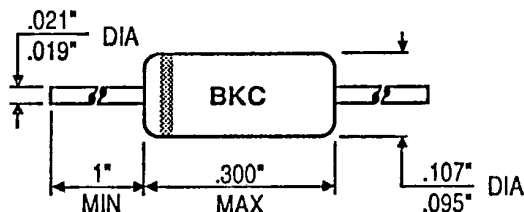
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 30  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 25 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N449

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Electronics Inc.

**FEATURES**

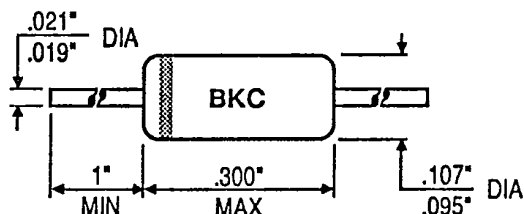
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 50 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 50  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 30  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 50 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N450

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Electronics Inc.

**FEATURES**

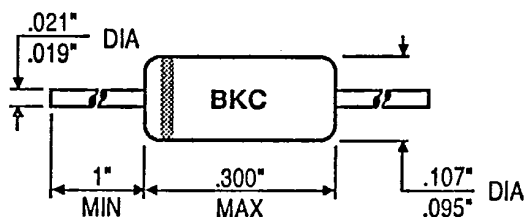
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 30  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 100 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 50 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

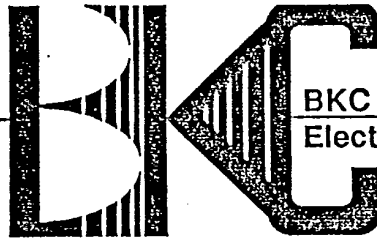
Type No. 1N451

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

Telephone (617) 681-0392  
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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

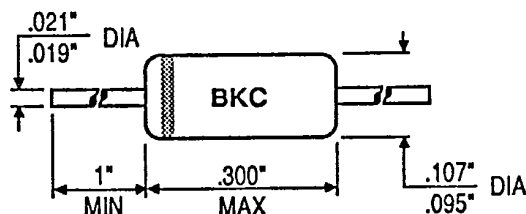
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 170 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 170 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 150 V      |     | 150 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 50 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

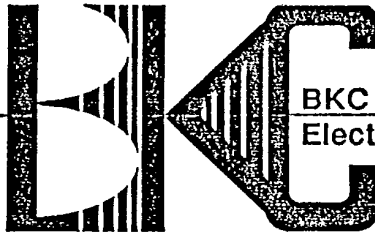
Type No. 1N452

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

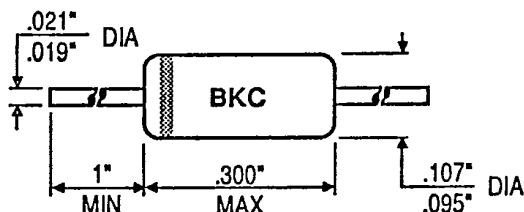
- Low forward voltage drop—low power consumption
- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 50 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 50  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 30  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N453

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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BKC International  
Electronics Inc.

**FEATURES**

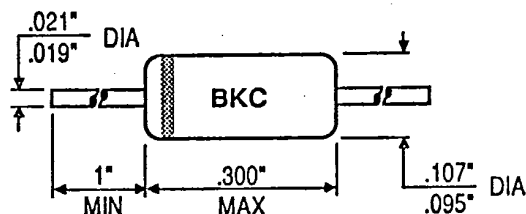
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 100 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N454

T-01-07

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Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

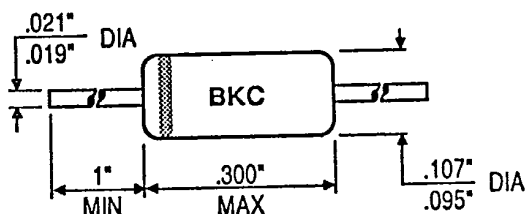
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 50  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 200 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N455

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

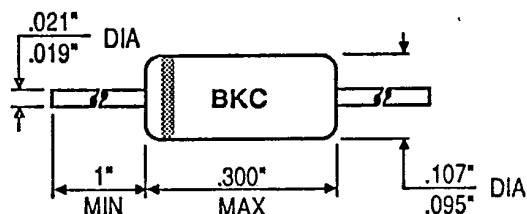
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 50 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 50  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 30  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 300 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N476

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

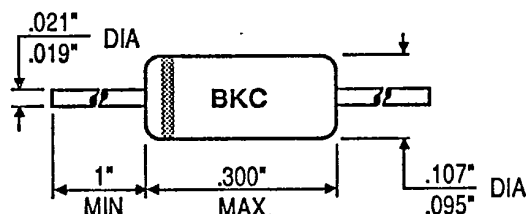
- Low forward voltage drop—low power consumption
- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 11  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 60  | μA   | 60 °C |
| Forward Voltage      | V <sub>f</sub> | 2.5 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N477

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

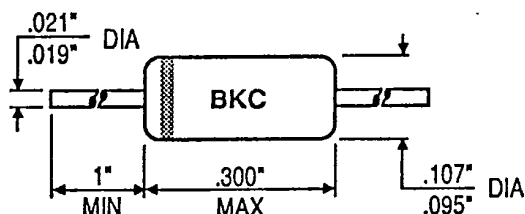
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 11  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 60  | μA   | 60 °C |
| Forward Voltage      | V <sub>f</sub> | 2.5 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and  
environmental requirements  
of MIL-S-19500, including  
shock and vibration.

Type No. 1N478

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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BKC International  
Electronics Inc.

**FEATURES**

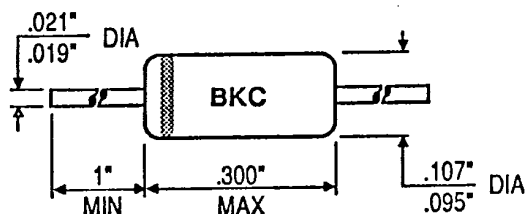
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 100 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 100 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 7   | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N479

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



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Electronics Inc.

**FEATURES**

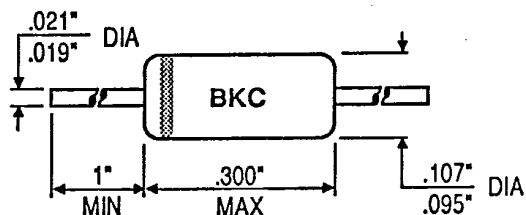
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 7   | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N480

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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TeleFax (617) 681-9135  
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Electronics Inc.

**FEATURES**

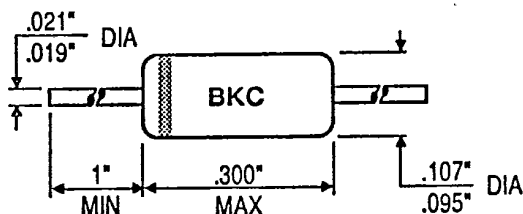
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 60  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 125 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N490

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

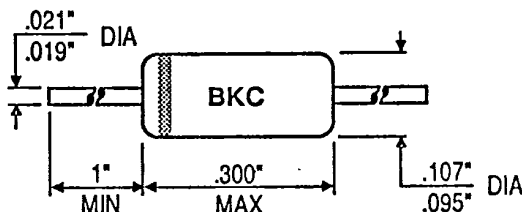
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 50 V       |     | 250 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N497

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

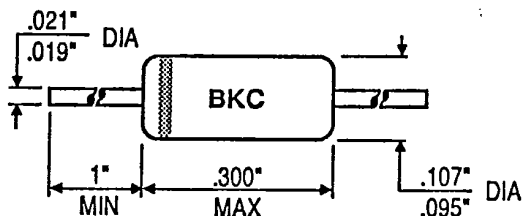
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 30 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 30  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 20 V       |     | 20  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N498

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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Telex 928377



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Electronics Inc.

**FEATURES**

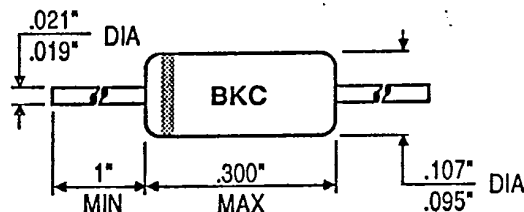
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 60  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 40 V       |     | 25  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N499

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

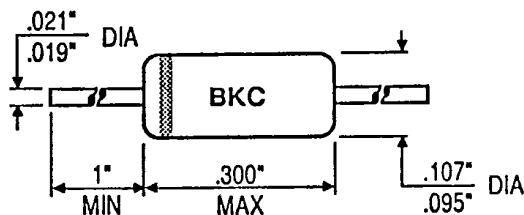
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 75 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 75  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 50 V       |     | 30  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 100 mA     |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N500

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telephone (617) 681-0392  
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Electronics Inc.

**FEATURES**

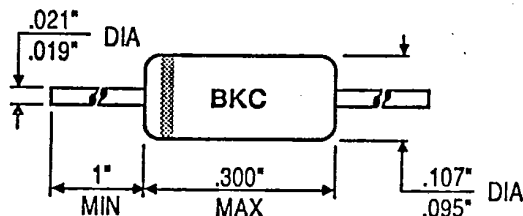
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 80 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 80  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 60 V       |     | 40  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N501

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



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Electronics Inc.

**FEATURES**

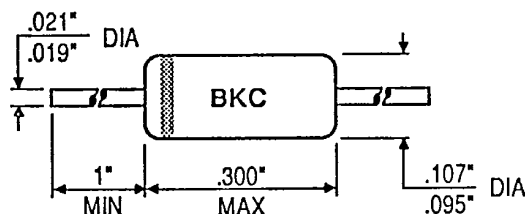
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 100 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 100 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 80 V       |     | 40  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N502

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



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Electronics Inc.

**FEATURES**

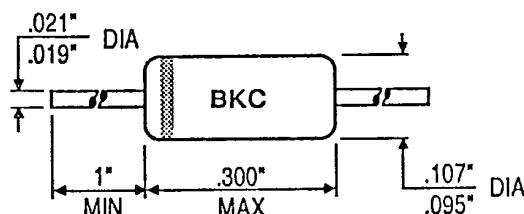
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 50  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 100 mA     |     | 1   | V    | 25 °C |

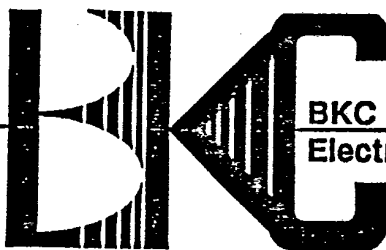
**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

**Type No. 1N527****GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



**BKC International  
Electronics Inc.**

**FEATURES**

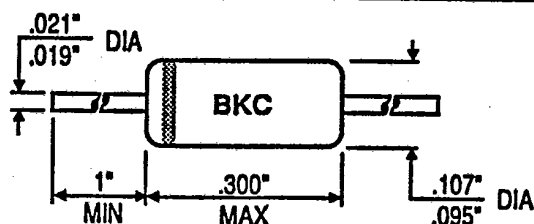
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 10 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 10  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 50  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 1 mA       |     | .3  | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

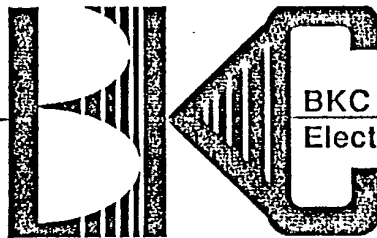
Type No. 1N541

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Telephone (617) 681-0392  
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BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

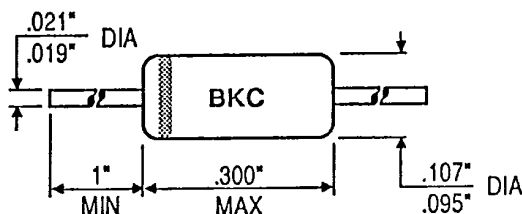
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 45 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 45  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 18  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 150 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 10 mA      |     | 2.2 | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N542

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

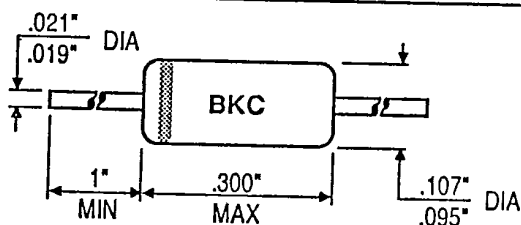
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 45 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 45  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 18  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 30 V       |     | 150 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 10 mA      |     | 2.2 | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N567

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

**Low forward voltage drop**—low power consumption

**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)

**Very low noise level**

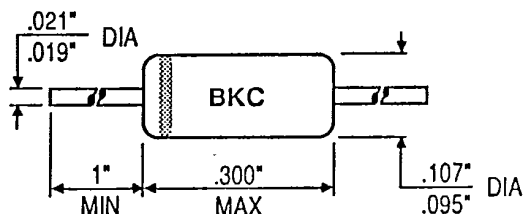
**Metallurgically bonded**

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 100 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 100 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 150 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 150 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N568

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

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TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

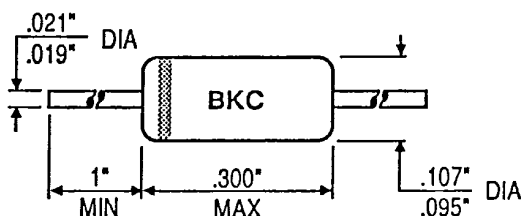
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 7 Volts          |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 7   |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 5 V        |     | 100 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | .32 | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N571

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

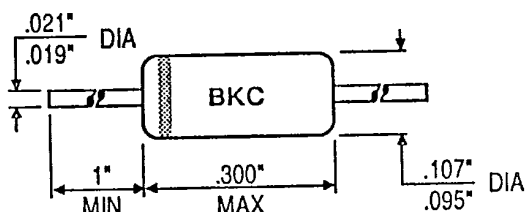
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 12 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 12  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 10 V       |     | 100 | μA   | 55 °C |
| Forward Voltage      | V <sub>f</sub>  | 200 mA     |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 4   |      |       |

NOTE: I<sub>f</sub> = 100, V<sub>r</sub> = -5, Recover to 10 kΩ.

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N616

T-01-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

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Telex 928377



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Electronics Inc.

**FEATURES**

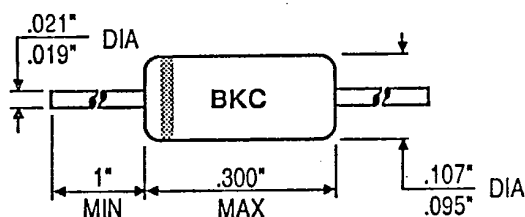
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 20 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 20  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 20 V       |     | 400 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 8 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N617

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

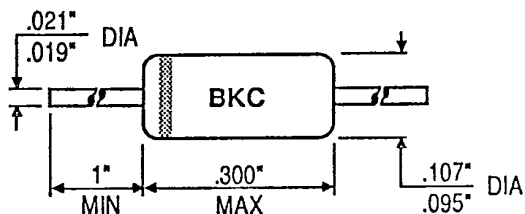
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 115 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 115 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 11  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 75 V       |     | 35  | μA   | 60 °C |
| Forward Voltage      | V <sub>f</sub> | 3 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N618

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

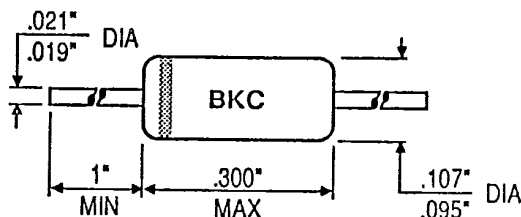
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 115 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 115 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 70  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 5 mA       |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N631

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

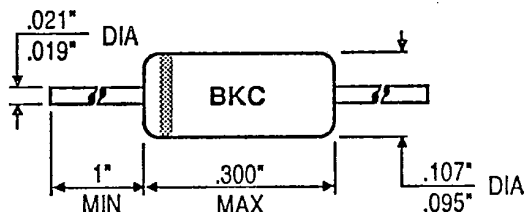
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 60 V       |     | 120 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 50 mA      |     | 3.5 | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .5 mA.

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N632

T-03-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

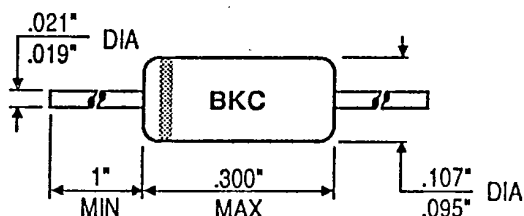
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 90 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 90  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 60 V       |     | 120 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 7 mA       |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .5 mA.

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N633

T-03-07

**GOLD BONDED GERMANIUM DIODE**

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Lawrence, MA 01841

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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

Low forward voltage drop—low power consumption

Thirty years of proven reliability—one million hours mean time between failures (MTBF)

Very low noise level

Metallurgically bonded

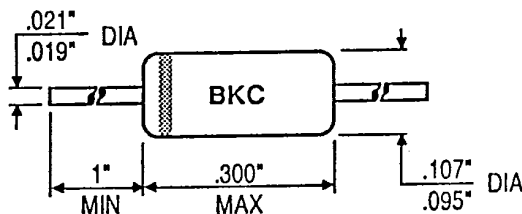
**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 120 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol          | Conditions | Min | Max | Unit | T °C  |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV             | 1 mA       | 120 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub>  | 90 V       |     | 180 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub>  | 125 mA     |     | 1   | V    | 25 °C |
| Reverse Recovery     | T <sub>rr</sub> | See note   |     | 300 |      |       |

NOTE: I<sub>f</sub> = 5, V<sub>r</sub> = -40, Recover to .5 mA.

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N634

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841

Telephone (617) 681-0392  
TeleFax (617) 681-9135  
Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

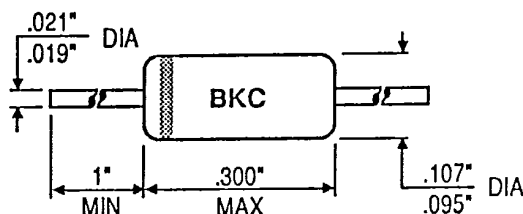
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 115 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 115 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 45 V       |     | 45  | μA   | 25 °C |
| Reverse Current      | I <sub>r</sub> | 100 V      |     | 100 | μA   | °C    |
| Forward Voltage      | V <sub>f</sub> | 50 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N635

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Lawrence, MA 01841

Telephone (617) 681-0392  
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Telex 928377



BKC International  
Electronics Inc.

**FEATURES**

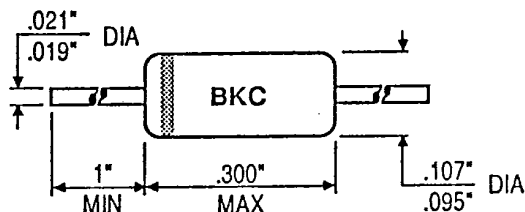
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 165 Volts        |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 165 |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 150 V      |     | 175 | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 50 mA      |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N636

T-01-07

**GOLD BONDED GERMANIUM DIODE**

6 Lake Street  
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Telephone (617) 681-0392  
TeleFax (617) 681-9135  
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Electronics Inc.

**FEATURES**

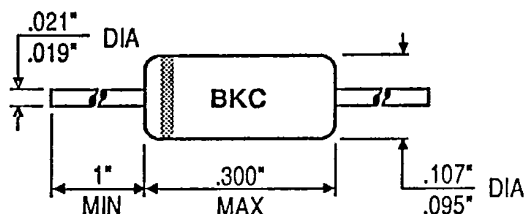
Low forward voltage drop—low power consumption  
Thirty years of proven reliability—one million hours mean time between failures (MTBF)  
Very low noise level  
Metallurgically bonded

**ABSOLUTE MAXIMUM RATINGS** (at 25 °C, unless otherwise specified)

|                             |                  |
|-----------------------------|------------------|
| Peak Inverse Voltage        | 60 Volts         |
| Peak Forward Current        | 500 mA           |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation   | 80 mW            |

**ELECTRICAL CHARACTERISTICS**

|                      | Symbol         | Conditions | Min | Max | Unit | T °C  |
|----------------------|----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV            | 1 mA       | 60  |     | V    | 25 °C |
| Reverse Current      | I <sub>r</sub> | 10 V       |     | 10  | μA   | 25 °C |
| Forward Voltage      | V <sub>f</sub> | 2.5 mA     |     | 1   | V    | 25 °C |

**MECHANICAL**

Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.