

Type No. AAY42

## GOLD BONDED GERMANIUM DIODE

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841



BKC International  
Electronics Inc.

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

### 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)

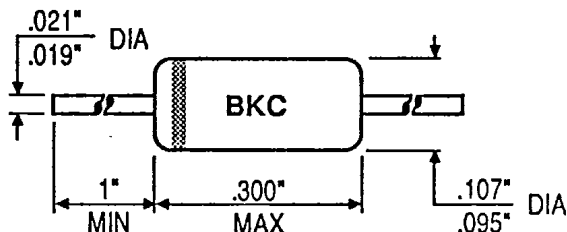
|                           |                  |
|---------------------------|------------------|
| Peak Inverse Voltage      | 50 Volts         |
| Peak Forward Current      | 500 mA           |
| Operating Temperature     | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW            |

### ELECTRICAL CHARACTERISTICS

|                      | Symbol   | Conditions | Min | Max | Unit    | T °C  |
|----------------------|----------|------------|-----|-----|---------|-------|
| Peak Inverse Voltage | PIV      | 1 mA       | 50  |     | V       | 25 °C |
| Reverse Current      | $I_r$    | 25 V       |     | 10  | $\mu$ A | 25 °C |
| Forward Voltage      | $V_f$    | 50 mA      |     | 0.6 | V       | 25 °C |
| Reverse Recovery     | $T_{rr}$ | See note   |     | 40  |         |       |

NOTE:  $I_f = 10$ ,  $V_r = 1$ , Recover to 10 mA.

### MECHANICAL



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