



6 Lake Street
PO Box 1436
Lawrence, MA
USA 01841

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

GOLD BONDED DIODES

TYPE 1N3666

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

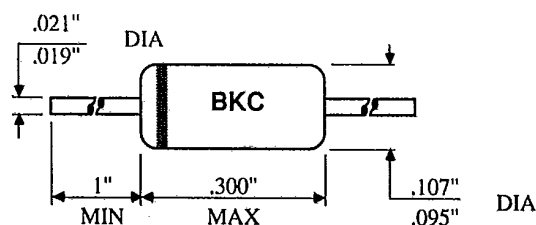
Peak Inverse Voltage	80V	@ 25 °C
Peak Forward Current	500mA	unless
Operating Temperature Range	-65°C to 85°C	otherwise
Average Power Dissipation	80mW	specified

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min.	Max.	Unit	T °C
Peak Inverse Voltage	PIV	500uA	80		V	25°
Inverse Current	I _r	50V		25	uA	25°
Forward Voltage	V _f	200mA	.5	1.0	V	25°
Capacitance	C	1.0V		1.0	pF	25°
Reverse Recovery Time	T _{rr}	*I _r = .5mA		300	nsec	25°

* I_f = 30mA, V_r = 10V, R_L = 2K, C_L = 10pF

MECHANICAL



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

Type No. 1N3666M1 JAN

T-03-07

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

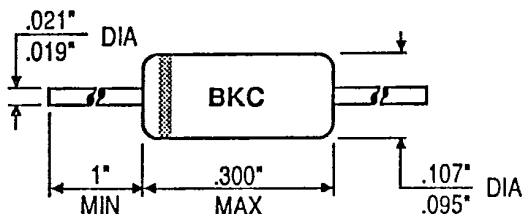
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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 _r	20 V		10	μA	25 °C
Reverse Current	I _r	20 V		150	μA	70 °C
Forward Voltage	V _f	200 mA		1	V	25 °C
Reverse Recovery	T _{rr}	See Note		300	n Sec	

Note: I_f = 30, V_r = -10, Recover to .

MECHANICAL

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

Type No. 1N3666M2 JAN

T-03-07

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

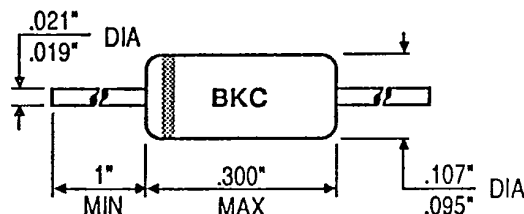
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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 _r	20 V		10	μA	25 °C
Reverse Current	I _r	20 V		150	μA	70 °C
Forward Voltage	V _f	200 mA		1	V	25 °C
Reverse Recovery	T _{rr}	See Note		300	n Sec	

Note: I_f = 30, V_r = -10, Recover to .

MECHANICAL

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

Type No. 1N3769

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

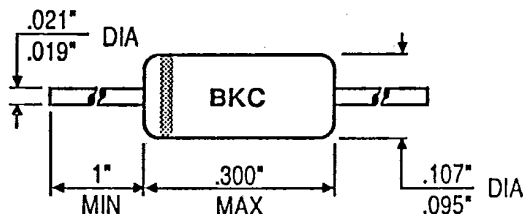
Low forward voltage drop—low power consumption
Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

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

Peak Inverse Voltage	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 _r	5 V		5	μA	25 °C
Reverse Current	I _r	65 V		20	μA	°C
Forward Voltage	V _f	25 mA		0.5	V	25 °C

MECHANICAL

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

Type No. 1N3773

T-03-07

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

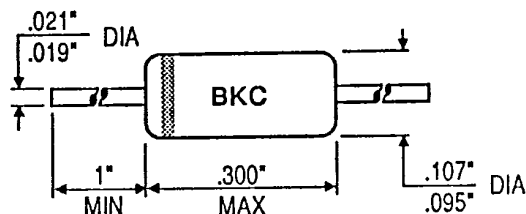
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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 _r	3 V		4	μA	25 °C
Forward Voltage	V _f	2 mA		.35	V	25 °C
Reverse Recovery	T _{rr}	See note		40		

NOTE: I_f = 2, V_r = 2, Recover to 0 V.

MECHANICAL

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

Type No. 1N4523

T-03-07

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

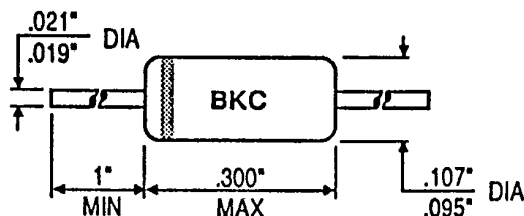
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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 _r	10 V		30	μA	25 °C
Forward Voltage	V _f	100 mA		1	V	25 °C
Reverse Recovery	T _{rr}	See note		8		

NOTE: I_f = 10, V_r = -6, Recover to .

MECHANICAL

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