



6 Lake Street
PO Box 1436
Lawrence, MA
USA 01841

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

GOLD BONDED DIODES

TYPE AA143

- 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
 - Metallurgical construction

ABSOLUTE MAXIMUM RATINGS

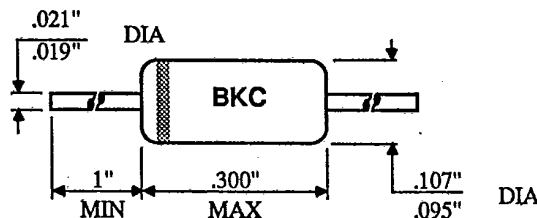
Peak Inverse Voltage	25V	@ 25 °C
Peak Forward Current	500mA	unless
Operating Temperature Range	-65°C to 85°C	otherwise
Average Power Dissipation	80mW	specified

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min.	Max.	Unit	T °C
Peak Inverse Voltage	PIV	100uA	25		V	25°
Inverse Current	I _r	3V		4	uA	25°
Inverse Current	I _r	20V		25	uA	25°
Forward Voltage	V _f	2mA	.29	.33	V	25°
Forward Voltage	V _f	15mA		.50	V	25°
Capacitance	C	3V		1.2	pF	25°
Reverse Recovery	T _{rr}	See Note		70	ns	25°

Note: Type "S" unit I_f = 2mA I_r = .2mA

MECHANICAL



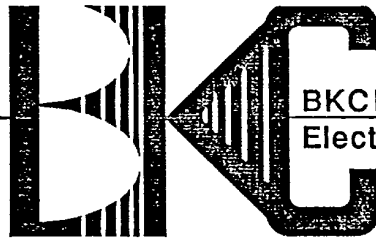
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. AA210

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

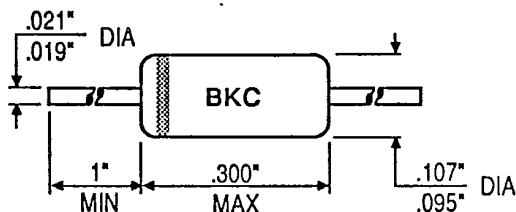
Metallurgically bonded

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

Peak Inverse Voltage	30 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	30		V	25 °C
Reverse Current	I _r	10 V		30	μA	25 °C
Forward Voltage	V _f	10 mA		0.95	V	25 °C

MECHANICAL

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

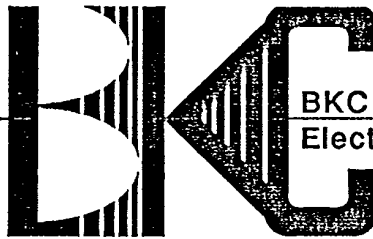
Type No. AAY30

T-03-07

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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

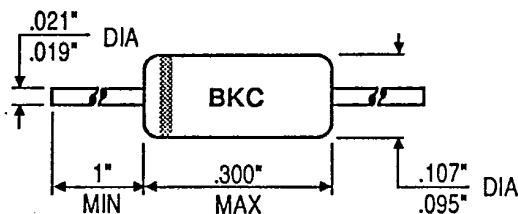
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	30 Volts
Peak Forward Current	500 mA
Operating Temperature	- 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_r	10 V		15	μ A	25 °C
Forward Voltage	V_f	10 mA		0.45	V	25 °C
Reverse Recovery	T_{rr}	See note		350		

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.

Type No. AAY32

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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)

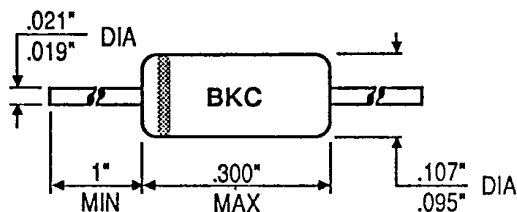
Peak Inverse Voltage	30 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	30		V	25 °C
Reverse Current	I_r	35 V		25	μ A	25 °C
Forward Voltage	V_f	30 mA		0.6	V	25 °C
Reverse Recovery	T_{rr}	See note		50		

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

MECHANICAL



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

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

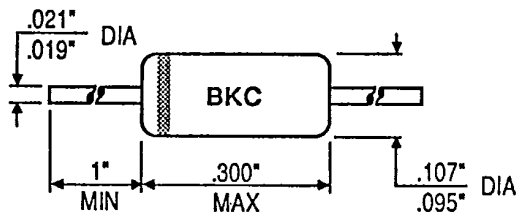
Peak Inverse Voltage	12 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	12		V	25 °C
Reverse Current	I _r	7 V		10	µA	25 °C
Forward Voltage	V _f	10 mA		0.42	V	25 °C
Reverse Recovery	T _{rr}	See note		12		

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

MECHANICAL

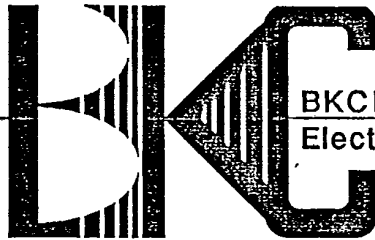


Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. AAY42

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

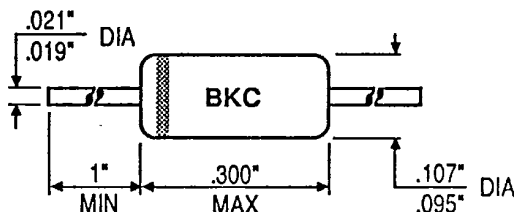
Peak Inverse Voltage	50 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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	µA	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.

Type No. AAZ13

T-01-07

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- Very low noise level
- Metallurgically bonded

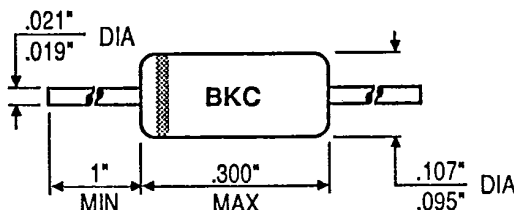
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	8 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	8		V	25 °C
Reverse Current	I _r	25 V		3	μA	25 °C
Forward Voltage	V _f	10 mA		0.6	V	25 °C

MECHANICAL

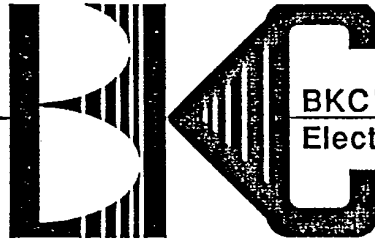


Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. AAZ15

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- Very low noise level
- Metallurgically bonded

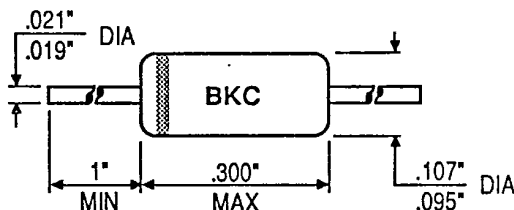
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	100 Volts
Peak Forward Current	500 mA
Operating Temperature	- 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_r	100 V		100	μ A	25 °C
Forward Voltage	V_f	10 mA		0.45	V	25 °C

MECHANICAL



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

Type No. AAZ17

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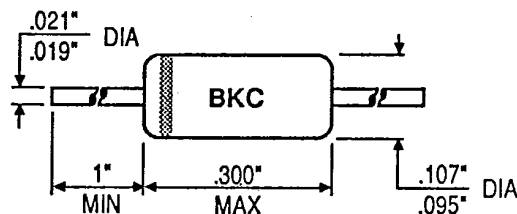
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	75 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	75		V	25 °C
Reverse Current	I _r	75 V		300	μA	25 °C
Forward Voltage	V _f	10 mA		0.45	V	25 °C
Reverse Recovery	T _{rr}	See note		350		

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.

Type No. AAZ18

T-01-07

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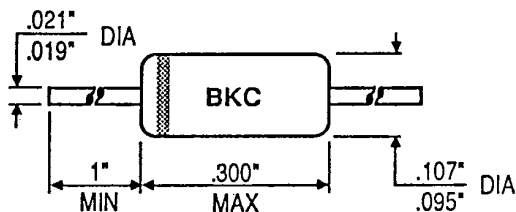
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	40 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	40		V	25 °C
Reverse Current	I _r	30 V		30	μA	25 °C
Forward Voltage	V _f	200 mA		0.75	V	25 °C

MECHANICAL



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