

SUBMINIATURE GLASS BODY

2AG Slo-Blo® Type Fuse



The 2AG Slo-Blo® fuses are available in cartridge form or with axial leads. Axial leaded fuses are board washable. 2AG fuses provide the same performance characteristics as their 3AG counterpart, while occupying one-third the space. Sleeved fuses are available.

ELECTRICAL CHARACTERISTICS:

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	3 seconds, Minimum ; 20 seconds, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA through 3.5 amperes. Recognized under the Components Program of Underwriters Laboratories from 4 through 7 amperes. **229 004** and **229 005** approved by MITI. **230 001** through **230 005** approved by MITI.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

FUSES TO MIL SPEC: **229** and **230 Series** are available to DESC Drawing #87108. To order, change **229** to **290** or **230** to **291**.

INTERRUPTING RATINGS:

0.25–3.5A	10,000 amperes at 125VAC
4–7A	400 amperes at 125VAC
0.25–1A	35 amperes at 250VAC
1.25–3.5A	100 amperes at 250VAC

OPTIONS: **230 Series** available on tape and reel.

PACKAGING SPECIFICATIONS: Tape and Reel per EIA-296; T1: 52.4mm (2.062") taped spacing; For 1,500 per reel, 10mm (.40") spacing, add packaging suffix, DRT1. For 2,500 per reel, 5mm (.20") spacing, add packaging suffix, ERT1.

PATENTED

ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
229.250	230.250	1/4	250	2.41	0.216
229.350	230.350	.350	250	1.30	0.490
229.375	230.375	3/8	250	1.16	0.580
229.500	230.500	1/2	250	0.688	1.16
229.600	230.600	6/10	250	0.477	1.75
229.750	230.750	3/4	250	0.340	2.95
229.800	230.800	8/10	250	0.304	3.45
229.001	230.001	1	250	0.210	5.64
229.1.25	230.1.25	1 1/4	250	0.145	9.80
229.01.5	230.01.5	1 1/2	250	0.107	15.0
229.002	230.002	2	250	0.0692	30.0
229.2.25	230.2.25	2 1/4	250	0.0562	39.0
229.02.5	230.02.5	2 1/2	250	0.0498	50.0
229.003	230.003	3	250	0.0380	77.0
229.03.5	230.03.5	3 1/2	250	0.0310	110.0
229.004	230.004	4	125	0.0256	148.0
229.005	230.005	5	125	0.0185	267.0
229.006	230.006	6	125	0.0140	380.0
229.007	230.007	7	125	0.0115	464.0

2AG Special Surge Withstand Slo-Blo® Type



AXIAL LEAD PART NUMBER: 220 003 (0.35A)

ELECTRICAL CHARACTERISTICS:

Amperes	Opening Time
0.35A	4 hours, Minimum
0.6A	90 seconds, Maximum
2.0A	2 seconds, Maximum
6.0A	0.5 second, Maximum

INTERRUPTING RATINGS: Same as **230 Series**.

LIGHTNING SURGE WITHSTAND CAPABILITY: 25 amperes peak, 800V, 10 x 560 microseconds.

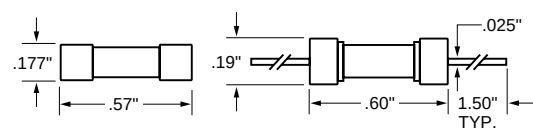
PATENTED

Refer to page 50 for other Surge Withstand Fuses.



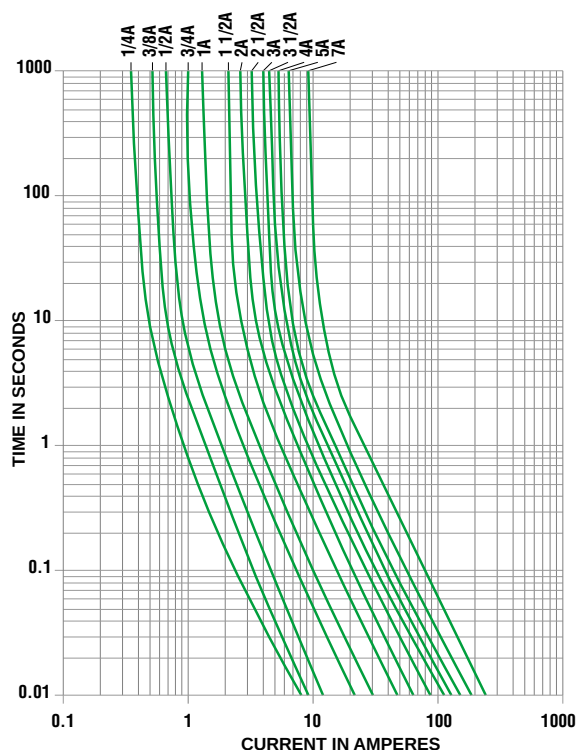
229 000 Series

230 000 Series



Axial Lead Material: Solder coated copper.

Average Time Current Curves



SUBMINIATURE GLASS BODY

2AG Surge Withstand Type



2AG Surge Withstand Fuse combines conventional over-current protection with the ability to withstand high current, short duration pulses. These fuses comply with the short circuit requirements of UL 1459 for telephone equipment. Insulating Sleeve Option available.

ELECTRICAL CHARACTERISTICS:

Short Circuit Capabilities:

UL 1459 / UL 1950 3rd Edt.:	40A,	600VAC
	7A,	600VAC
	2.2A,	600VAC

- Meets UL 497 Specifications

% of Ampere Rating	Opening Time
110%	4 hours, Minimum
135%	1 hour, Maximum
200%	3 seconds, Minimum
	20 seconds, Maximum

AGENCY APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

AGENCY FILE NUMBERS: UL E10480, CSA LR 29862.

INTERRUPTING RATINGS:

1/4–1 1/4A	10,000 amperes at 125VAC
1/4–1A	35 amperes at 250VAC
1 1/4A	100 amperes at 250VAC

PHYSICAL SPECIFICATIONS:

Materials: Glass Body, Nickel-Plated Brass Fuse Caps. (Insulating sleeve option available).

Soldering parameters:

Wave solder — 500°F (260°C), 3 seconds Max.
Reflow solder — Not recommended.

Solderability: (Axial Leaded Fuses): MIL-STD-202, Method 208.

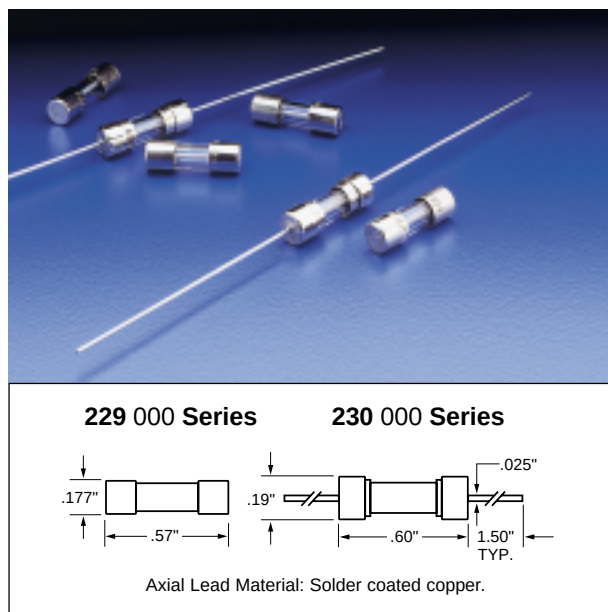
PACKAGING SPECIFICATIONS: Tape and Reel per EIA-296; T1: 52.4mm (2.062") taped spacing; For 1,500 per reel, 10mm (.40") spacing, add packaging suffix, DRT1. For 2,500 per reel, 5mm (.20") spacing, add packaging suffix, ERT1. Insulating sleeve option available.

PATENTED

TIME-CURRENT CURVES: See Page 43, Slo-Blo®, 2AG.

ORDERING INFORMATION:

Cartridge Catalog Number	Axial Lead Catalog Number	Ampere Rating	Voltage Rating	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec.
229.250	230.250	1/4	250	2.410	0.216
229.350	230.350	35/100	250	1.300	0.490
229.375	230.375	3/8	250	1.160	0.580
229.500	230.500	1/2	250	0.688	1.16
229.600	230.600	6/10	250	0.477	1.75
229.750	230.750	3/4	250	0.340	2.95
229.800	230.800	8/10	250	0.304	3.45
229.001	230.001	1	250	0.210	5.64
229.1.25	230.1.25	1 1/4	250	0.145	9.80



ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature: –55°C to 125°C.

Shock: MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds).

Vibration: MIL-STD-202, Method 201 (10–55 Hz, 0.06 inches total excursion).

Salt Spray: MIL-STD-202 Method 101, Test Condition B (48 hours).

Insulation Resistance (After Opening): MIL-STD-202, Method 302, Test Condition B.

Resistance to Soldering Heat: (Axial Leaded Fuses): MIL-STD-202, Method 210A, Test Condition B (260°C, 3 Seconds).

Thermal Shock: MIL-STD-202, Method 107, Test Condition B (–65°C to 125°C).

Moisture Resistance: MIL-STD-202, Method 106 (90–98% RH, 65°C).

PEAK WITHSTAND CURRENT (I_p): These fuses will withstand 50 repetitions of a double exponential impulse wave having peak currents (I_p) and peak voltages as listed.

Amperage Rating	10 x 160 microsec. 1500V	10 x 560 microsec. 800V	10 x 1000 microsec. 1000V
1/4	23.0A	16.6A	12.4A
35/100	34.0A	25.8A	19.3A
3/8	40.0A	25.4A	19.0A
1/2	60.0A	37.7A	28.2A
6/10	71.0A	47.2A	35.3A
3/4	91.0A	65.5A	49.0A
8/10	104.0A	68.9A	51.6A
1	130.0A	88.6A	66.3A
1 1/4	162.0A	118.1A	100.0A

¹ 500A peak, 2500V, 2 x 10 microseconds, 20 repetitions.

NOTE: LF logo, series number, amperage rating, voltage rating, and UL and CSA logos are stamped on the fuse caps.