

Description

- Fast acting, low breaking capacity
- 5mm x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Optional axial leads are .032" x 1.5" copper tinned
- Designed to IEC 60127-2 (32mA-6.3A)
- RoHS Compliant version available (-R option)

ELECTRICAL CHARACTERISTICS

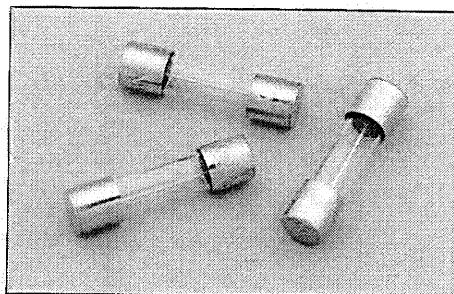
In	1.5 In min	2.1 In max	2.75 In min	max	4 In min	max	10 In max
32mA-100mA	60 min	30 min	10 ms	500 ms	3 ms	100 ms	20 ms
125mA-6.3A	60 min	30 min	50 ms	2 sec	10 ms	300 ms	20 ms

Ordering

- Specify product code, option code and packaging code
- For -R option, drop mA or A from product code (i.e. S500-2-R)

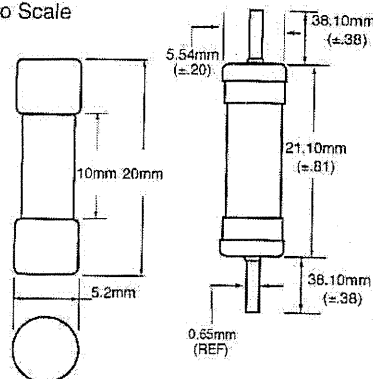
Agency Information

- UL Recognized Card: (160mA-10A) Guide JDYX2, File E19180
- Semko Approval 160mA-400mA and 800mA-10A
- VDE Approval 160mA-10A
- BSI Approval 160mA-10A
- IMQ Approval 160mA-10A



Dimensions

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead

SPECIFICATIONS

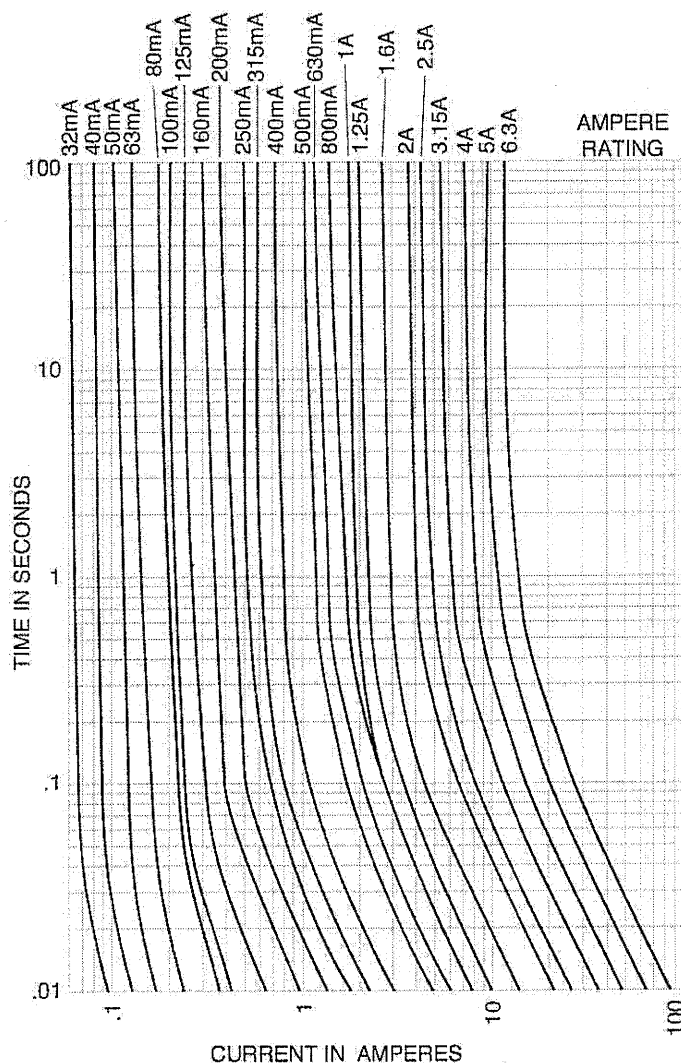
Product Code	Voltage Rating AC	Interrupting Rating at Rated Voltage (50Hz) AC	Typical DC Cold Resistance (ohms)*	Typical Melting I ² t (A ² Sec) AC†	Maximum Voltage Drop (mV)‡
S500-32mA	250V	35A	41.5	0.000047	3200
S500-40mA	250V	35A	25.5	0.00011	2500
S500-50mA	250V	35A	17.5	0.00020	2400
S500-63mA	250V	35A	12.9	0.00057	2000
S500-80mA	250V	35A	5.2	0.0012	1200
S500-100mA	250V	35A	3.9	0.003	1100
S500-125mA	250V	35A	2.9	0.005	1000
S500-160mA	250V	35A	9.2	0.008	2000
S500-200mA	250V	35A	7.0	0.016	1700
S500-250mA	250V	35A	4.5	0.28	1400
S500-315mA	250V	35A	3.2	0.58	1300
S500-400mA	250V	35A	1.9	0.18	1100
S500-500mA	250V	35A	0.27	0.18	220
S500-630mA	250V	35A	0.21	0.35	220
S500-800mA	250V	35A	0.15	0.67	190
S500-1A	250V	35A	0.13	0.60	200
S500-1.25A	250V	35A	0.098	0.84	200
S500-1.6A	250V	35A	0.068	1.6	190
S500-2A	250V	35A	0.044	4.2	150
S500-2.5A	250V	35A	0.035	6.1	150
S500-3.15A	250V	35A	0.026	13	130
S500-4A	250V	35A	0.022	22	130
S500-5A	250V	35A	0.015	42	120
S500-6.3A	250V	35A	0.010	69	120
S500-8A	250V	35A	N/A	N/A	N/A
S500-10A	250V	35A	N/A	N/A	N/A

* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I²t (I²t was measured at listed interrupting rating and rated voltage)

‡ Maximum Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

TIME CURRENT CURVE
 Time-Current Characteristic Curves—Average Melt



OPTION CODE

Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps
-R	RoHS compliant version

PACKAGING CODE

Packaging Code	Description
BK	100 pieces of fuses packed into a cardboard carton
BK1	1,000 pieces of fuses packed into a poly bag
TR2	1,500 pieces of fuses packed into tape on a reel

North America

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 3601 Quantum Boulevard
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 Toll Free: 1-888-414-2645

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 Fax: 1-800-544-2570

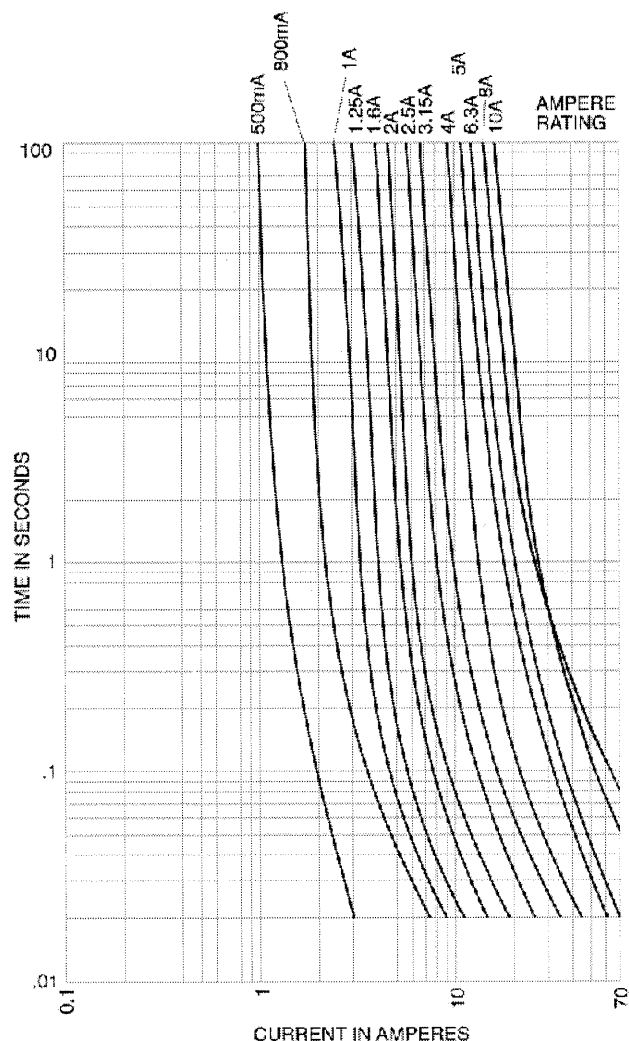
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TIME CURRENT CURVE
Time-Current Characteristics--Total Clear



PACKAGING CODE

Packaging Code	Description
BK	100 pieces of fuses packed into a cardboard carton
BK1	1,000 pieces of fuses packed into a poly bag
TR2	1,500 pieces of fuses packed into tape on a reel (19.05mm lead wire length)

OPTION CODE

Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps
-R	RoHS compliant version

North America

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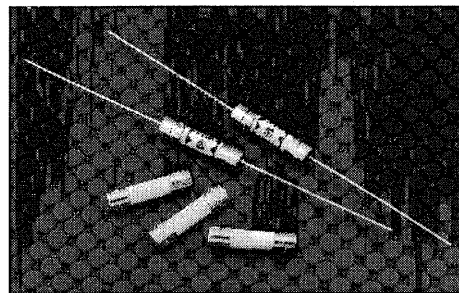
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Description

- Time delay, high breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Ceramic tube, nickel plated brass endcap construction
- Designed to IEC 60127-2 (1A-10A)



ELECTRICAL CHARACTERISTICS								
In	1.5 In min	2.1 In max	2.75 In min	max	4 In min	max	10 In min	max
<1A	60 min	30 min	250 ms	80 sec	50 ms	5 sec	5 ms	55 ms
1A-3.15A	60 min	30 min	1 sec	80 sec	95 ms	5 sec	10 ms	100 ms
4A-10A	60 min	30 min	1 sec	80 sec	150 ms	5 sec	20 ms	100 ms
12.5A	--	30 min	1 sec	80 sec	150 ms	5 sec	20 ms	100 ms

Agency Information

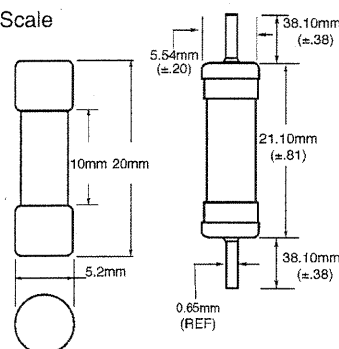
- UL Recognized Card: (1A-10A) Guide JDYX2, File E19180
- Semko Approval, 1A-10A
- VDE Approval, 1.25A-10A
- BSI Approval, 1.25A-10A
- IMQ Approval, 1.25A-10A
- MITI Approval, 1A-10A
- EK Approval, 1A-10A

Ordering

- Specify packaging, product, and option code
- For -R option, drop mA or A from product code (i.e. S505-3-R)

Dimensions

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

SPECIFICATIONS					
Product Code	Voltage Rating AC	Interrupting Rating at Rated Voltage (50Hz) AC	Typical DC Cold Resistance (ohms)*	Typical Melting I ² t (A ² Sec) AC†	Typical Voltage Drop (mV)‡
S505-500mA	250V	1500A	-	-	-
S505-800mA	250V	1500A	0.243	-	-
S505-1A	250V	1500A	0.117	0.74	170
S505-1.25A	250V	1500A	0.093	1.6	150
S505-1.6A	250V	1500A	0.061	3.5	130
S505-2A	250V	1500A	0.041	7.6	110
S505-2.5A	250V	1500A	0.030	14	100
S505-3.15A	250V	1500A	0.022	27	90
S505-4A	250V	1500A	0.015	52	85
S505-5A	250V	1500A	0.011	98	80
S505-6.3A	250V	1500A	0.008	197	75
S505-8A	250V	1500A	0.007	311	75
S505-10A	250V	1500A	0.006	397	72

* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I²t (I²t was measured at listed interrupting rating and rated voltage)

‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

Description

- Time delay, low breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to IEC 60127-2 (32mA-10A)
- RoHS Compliant version available (-R option)

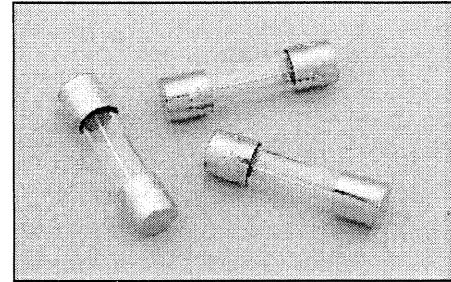
S506 ELECTRICAL CHARACTERISTICS							
In	2.1 In max	2.75 In min max	4 In min max	10 In min max			
32mA-100mA	2 min	200 ms	10 sec	40 ms	3 sec	10 ms	300 ms
125mA-6.3A	2 min	600 ms	10 sec	150 ms	3 sec	20 ms	300 ms
8A-12.5A	2 min	600 ms	10 sec	150 ms	3 sec	20 ms	300 ms

Ordering

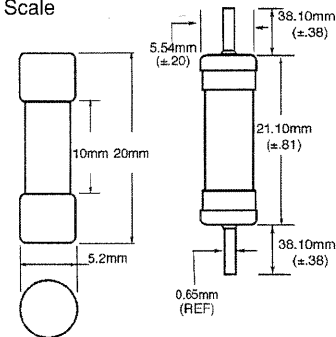
- Specify product code, option code and packaging code
- For -R option, drop mA or A from product code (i.e. S506-2-R)

Agency Information

- UL Recognized Card: (32mA-10A) Guide JDYX2, File E19180
- Semko Approval, 32mA-10A
- VDE Approval, 32mA-10A
- BSI Approval, 32mA-10A
- IMQ Approval, 32mA-10A
- MITI Approval, 32mA-10A


Dimensions

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead

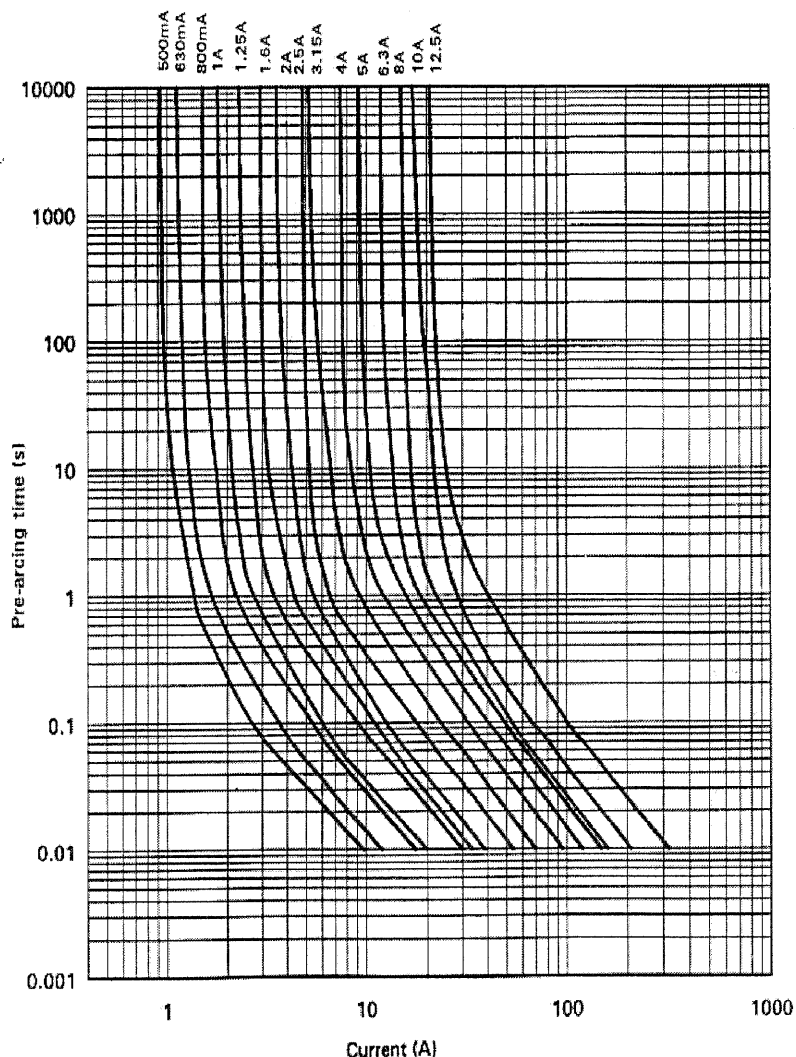
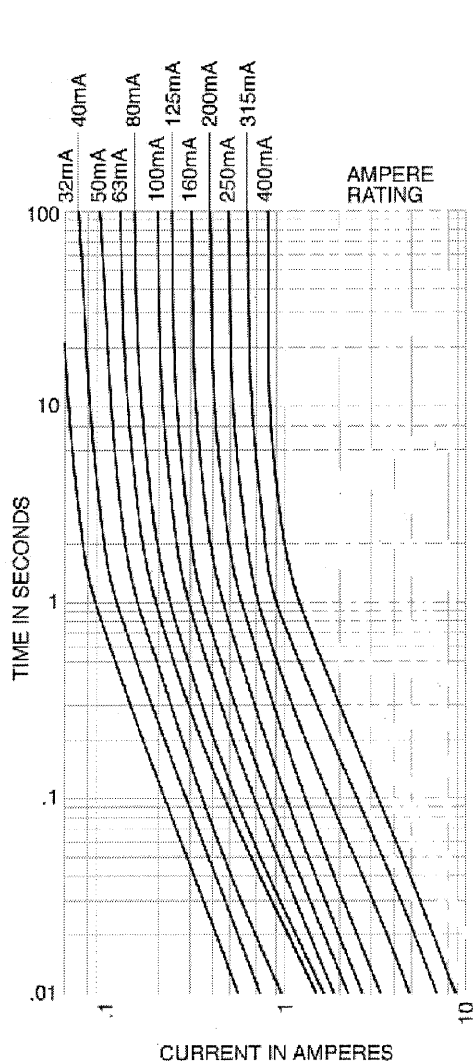
SPECIFICATIONS					
Product Code	Voltage Rating AC	Interrupting Rating at Rated Voltage (50Hz) AC	Typical DC Cold Resistance (ohms)*	Minimum Pre-Arching I [†] (A*Sec) AC†	Maximum Voltage Drop (mV)‡
S506-32mA	250V	35A	21.7	0.0014	1050
S506-40mA	250V	35A	14.2	0.0034	920
S506-50mA	250V	35A	9.5	0.006	800
S506-63mA	250V	35A	7.1	0.012	760
S506-80mA	250V	35A	4.5	0.015	580
S506-100mA	250V	35A	2.8	0.022	490
S506-125mA	250V	35A	2.0	0.034	390
S506-160mA	250V	35A	1.3	0.052	320
S506-200mA	250V	35A	1.0	0.078	340
S506-250mA	250V	35A	0.66	0.17	270
S506-315mA	250V	35A	0.46	0.41	250
S506-400mA	250V	35A	0.37	0.61	210
S506-500mA	250V	35A	0.268	0.67	190
S506-630mA	250V	35A	0.191	1.0	170
S506-800mA	250V	35A	0.131	2.2	150
S506-1A	250V	35A	0.064	2.7	90
S506-1.25A	250V	35A	0.046	6.7	85
S506-1.6A	250V	35A	0.039	9.7	85
S506-2A	250V	35A	0.029	15	85
S506-2.5A	250V	35A	0.024	25	85
S506-3.15A	250V	35A	0.018	51	80
S506-4A	250V	40A	0.013	88	80
S506-5A	250V	50A	0.010	150	75
S506-6.3A	250V	63A	0.009	214	75
S506-8A	250V	80A	0.007	192	80
S506-10A	250V	100A	0.005	420	75
S506-12.5A	250V	125A	0.004	812	75

* DC Cold Resistance (Measured at <10% of rated current)

† Minimum Pre-Arching I[†] (Measured at 10 In and rated voltage)

‡ Maximum Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

TIME CURRENT CURVE



OPTION CODE

Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps
-R	RoHS compliant version

PACKAGING CODE

Packaging Code	Description
BK	100 pieces of fuses packed into a cardboard carton
BK1	1,000 pieces of fuses packed into a poly bag
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