

## Type SSQ

2410 Size  
RoHS Compliant

### Square Ceramic Surface Mount Quick Acting Fuse

SSQD1005



#### Electrical Characteristics (UL/CSA STD.248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	N/A	5 Sec

#### Approvals



Safety Agency Approvals	Amp range / Volt @ I.R.ability
Certified File No. LR39772	100mA - 7A / 125V @ 50A AC
Listed File No. E20624	100mA - 7A / 125V @ 50A AC and 86V @ 10,000A DC and 125V @ 300A DC 7.1A - 12A / 125V @ 50A AC and 86V @ 10,000A DC
Recognized File No. E20624	15A / 86V @ 10,000A DC

#### RoHS Compliant Product

RoHS Reflow Reference : JEDEC J-STD-020C (260°C, 40 sec max)  
RoHS Wave Soldering Compatible : (260°C, 10 sec max)

#### Environmental Specification

##### Shock Resistance

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

##### Vibration Resistance

MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion)

##### Salt Spray Resistance

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

##### Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

##### Solderability

MIL-STD-202G, Method 208H

##### Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side (260°C, 20 sec)  
MIL-STD-202G Method 210F, Test Condition D. Bottom Side (260°C, 10sec)

##### Thermal Shock Resistance

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

##### Operating Temperature

-55°C to +125°C

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% $I_n$ (Volt) max.	Melting $I^2T < 10$ mSec (A <sup>2</sup> Sec)	Melting $I^2T @ 10$ $I_n$ (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)
SSQ 250	250mA	0.65	0.30	0.02	0.01	0.07
SSQ 375	375mA	0.36	0.25	0.04	0.03	0.09
SSQ 500	500mA	0.24	0.22	0.07	0.06	0.11
SSQ 750	750mA	0.15	0.17	0.11	0.07	0.13
SSQ 1	1A	0.11	0.17	0.19	0.14	0.17
SSQ 1.25	1.25A	0.09	0.16	0.33	0.24	0.20
SSQ 1.5	1.5A	0.07	0.15	0.57	0.41	0.23
SSQ 2	2A	0.05	0.15	1.0	0.8	0.30
SSQ 2.5	2.5A	0.038	0.14	1.7	1.4	0.36
SSQ 3	3A	0.028	0.13	3.0	2.4	0.43
SSQ 3.5	3.5A	0.025	0.13	3.9	3.3	0.47
SSQ 4	4A	0.022	0.13	5.1	4.4	0.51
SSQ 5	5A	0.016	0.12	8.8	7.8	0.62
SSQ 6.3	6.3A	0.012	0.12	15	14	0.74
SSQ 7	7A	0.011	0.114	20	19	0.81
SSQ 8	8A	0.009	0.112	26	25	0.89
SSQ 10	10A	0.007	0.107	46	44	1.07
SSQ 12	12A	0.006	0.103	70	69	1.24
SSQ 15	15A	0.004	0.098	121	124	1.54

Consult manufacturer for other ratings

#### Physical Specification

##### Materials

Ceramic body / Palladium Plated Brass Caps

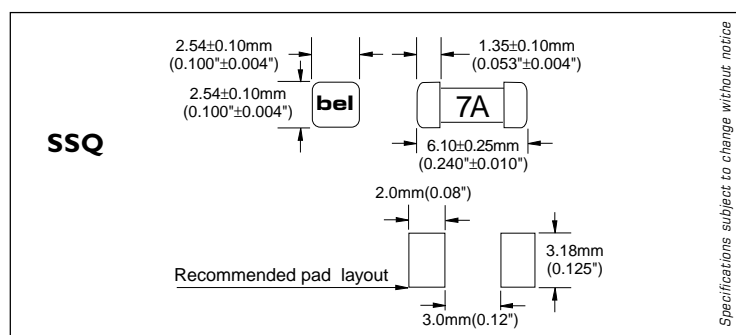
##### Marking

On fuse:  
"Current Rating" in black color, "bel" stamped in end caps  
On label:  
"bel", "SSQ", "Current Rating", "Voltage Rating", "Interrupting Rating",  
"Appropriate Safety Logos" and for RoHS Version

##### Packaging

5,000 fuses in 13 inches dia. reel, 12mm wide tape, 4mm pitch, per EIA Standard 481

#### Mechanical Dimensions



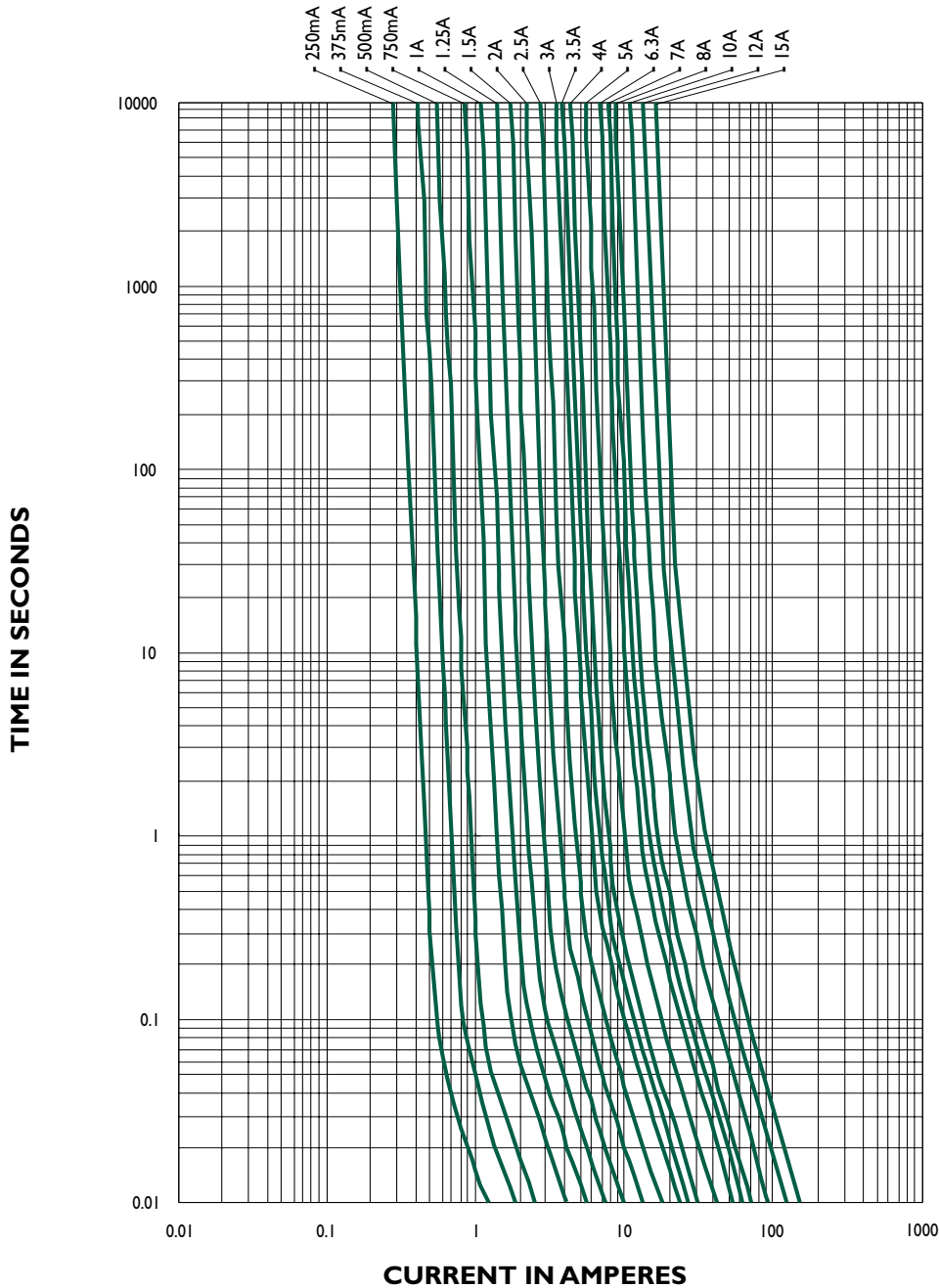
ORDERING INFORMATION SEE LAST 2 PAGES

**Type SSQ**  
**Square Ceramic Surface Mount Quick Acting Fuse**

2410 Size  
 RoHS Compliant

SSQC1004

**SSQ - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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# Type SST

2410 Size  
RoHS Compliant

## Square Ceramic Surface Mount Slow Blow Fuse

SSTD1105



### Electrical Characteristics (UL/CSA STD. 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	1 Sec	60 Sec
300%	0.2 Sec	3 Sec
800%	0.02 Sec	0.1 Sec

### Approvals



Safety Agency Approvals	Amp range / Volt @ I.R.ability
cUL <sub>us</sub> Listed File No. E20624 SP Certified File No. LR39772	375mA - 7A / 125V @ 50A AC and DC

### RoHS Compliant Product

RoHS Reflow Reference : JEDEC J-STD-020C (260°C, 40 sec max)  
RoHS Wave Soldering Compatible : (260°C, 10 sec max)

### Environmental Specification

#### Shock Resistance

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

#### Vibration Resistance

MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion)

#### Salt Spray Resistance

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

#### Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

#### Solderability

MIL-STD-202G, Method 208H

#### Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side  
(260°C, 20 sec)

MIL-STD-202G Method 210F, Test Condition D. Bottom Side  
(260°C, 10 sec)

#### Thermal Shock Resistance

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

#### Operating Temperature

-55°C to +125°C

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% I <sub>n</sub> (Volt) max.	Melting I <sup>2</sup> T < 10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 <sup>4</sup> I <sub>n</sub> (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)
SST 375	375mA	0.70	0.47	0.15	0.15	0.25
SST 500	500mA	0.46	0.43	0.27	0.28	0.30
SST 625	625mA	0.33	0.39	0.45	0.47	0.35
SST 750	750mA	0.26	0.37	0.66	0.69	0.39
SST 1	1A	0.17	0.34	1.2	1.3	0.47
SST 1.5	1.5A	0.10	0.29	3	3.1	0.62
SST 2	2A	0.06	0.24	5	5.7	0.68
SST 2.5	2.5A	0.04	0.21	9	9	0.74
SST 3	3A	0.032	0.18	14	16	0.80
SST 3.5	3.5A	0.027	0.17	18	20	0.84
SST 4	4A	0.023	0.16	23	26	0.88
SST 5	5A	0.017	0.14	38	43	0.95
SST 6	6A	0.013	0.12	56	63	1.02
SST 6.3	6.3A	0.012	0.12	62	70	1.03
SST 7	7A	0.010	0.11	80	90	1.08

Consult manufacturer for other ratings

### Physical Specification

#### Materials

Ceramic body / Palladium Plated Brass Caps

#### Marking

On fuse:

“Current Rating” in green color; “bel” stamped in end caps

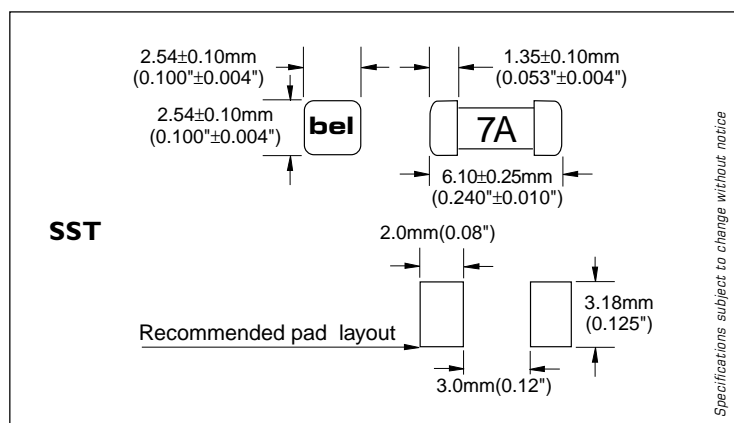
On label:

“bel”, “SST”, “Current Rating”, “Voltage Rating”, “Interrupting Rating”, “Appropriate Safety Logos” and “” for RoHS Version

#### Packaging

5,000 fuses in 13 inches dia. reel, 12mm wide tape, per EIA Standard 481

### Mechanical Dimensions



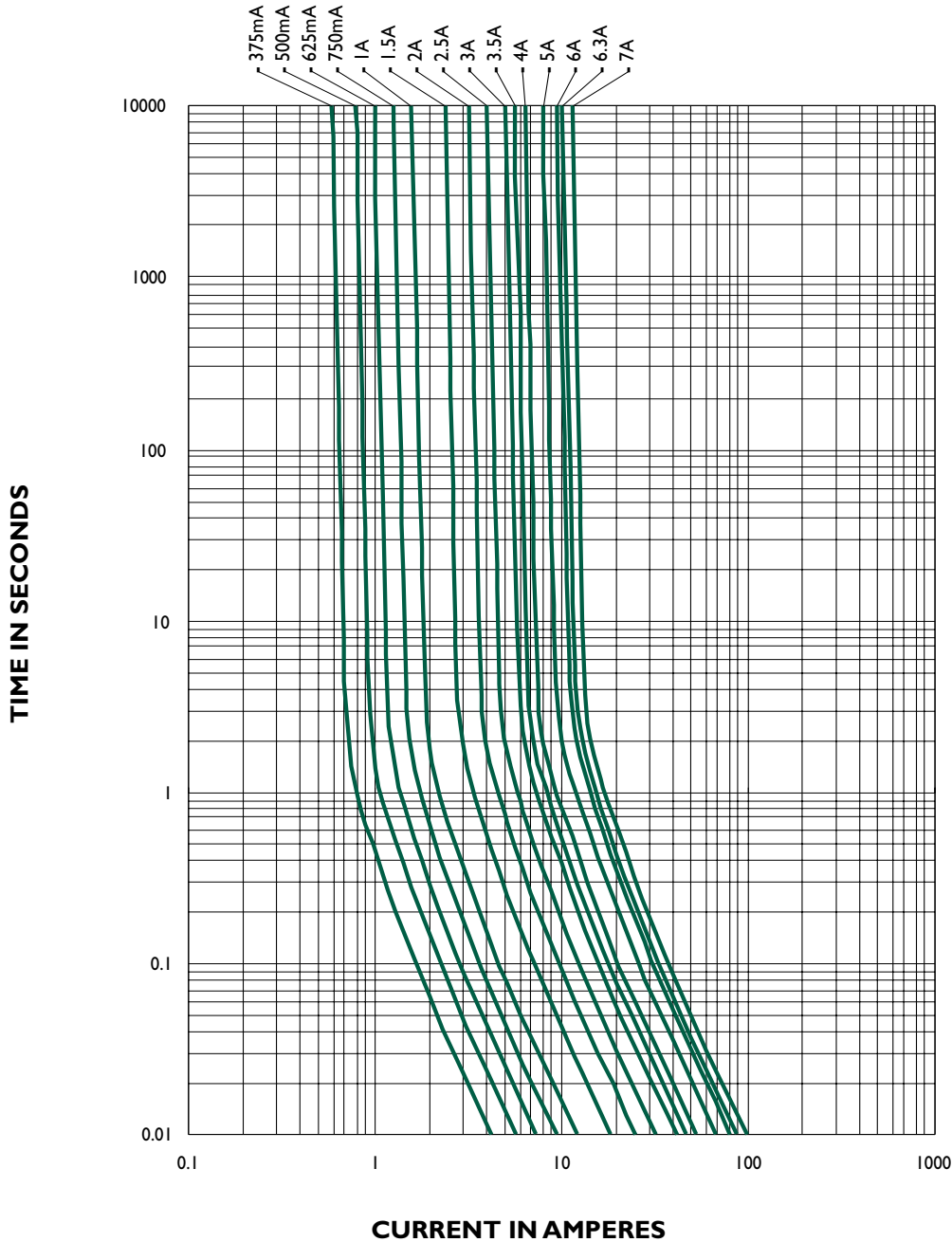
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**Type SST**  
**Square Ceramic Surface Mount Slow Blow Fuse**

2410 Size  
 RoHS Compliant

SSTC1004

**SST - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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# Replaceable SSQ/SST with Integral Clips

RoHS Compliant

SSQCD1005



These fuse/clip assemblies can efficiently placed in a single pass. Once reflowed, fuse replacement requires no resoldering.

## RoHS Compliant Product

RoHS Reflow Reference: Industrial standard 260°C, 40 sec max

## Electrical Specification

Maximum Recommended Fuse Current Rating 8 Amperes, 125 Volts

## 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 inch, total excursion)

### Insulation Resistance

MIL-STD-202, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum.

### Solderability

MIL-STD-202, Method 208

### Thermal Shock

MIL-STD-202, Method 107, Test Condition B  
(-65°C to +125°C)

## Physical Specification

### Materials

Clip Terminals: Tin Plated Inconel Alloy

### Packaging

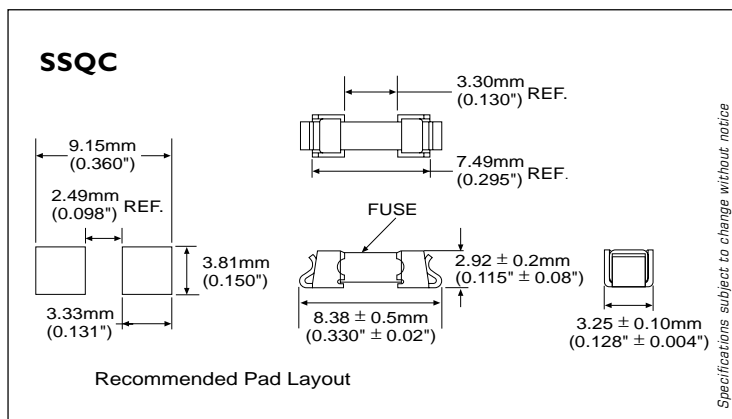
2,000 fuses in 13 inches dia. reel, 16mm wide tape, 8mm pitch, per EIA standard 481

SSQ Square Ceramic Surface Mount Quick Action Fuse	
Catalog Number	Ampere Rating
SSQC 250	250mA
SSQC 375	375mA
SSQC 500	500mA
SSQC 750	750mA
SSQC 1	1A
SSQC 1.25	1.25A
SSQC 1.5	1.5A
SSQC 2	2A
SSQC 2.5	2.5A
SSQC 3	3A
SSQC 3.5	3.5A
SSQC 4	4A
SSQC 5	5A
SSQC 6.3	6.3A
SSQC 7	7A
SSQC 8	8A

Consult manufacturer for other ratings

SST Square Ceramic Surface Mount Slow Blow Fuse	
Catalog Number	Ampere Rating
SSTC 375	375mA
SSTC 500	500mA
SSTC 625	625mA
SSTC 750	750mA
SSTC 1	1A
SSTC 1.5	1.5A
SSTC 2	2A
SSTC 2.5	2.5A
SSTC 3	3A
SSTC 3.5	3.5A
SSTC 4	4A
SSTC 5	5A
SSTC 7	7A

## Mechanical Dimensions



Specifications subject to change without notice

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# SMD Comparison

FUSE TYPE	MECHANICAL DIMENSIONS	PAD LAYOUT RECOMMENDED
<b>SMP</b>		
<b>SSQ / SST</b>		
<b>SSQ / SST WITH INTEGRAL CLIP</b>		
<b>CIQ</b>		
<b>C2Q</b>		

Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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# Type CIQ

## Surface Mount Very Fast-Acting Chip Fuse

1206 size  
RoHS Compliant

CIQD1105



### Electrical Characteristics (ULICSA STD. 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	5 sec
300%	N/A	0.2 sec

### Approvals



Safety Agency Approvals	Amp range / Volt @ I.R. ability
Listed File No. E20624 Certified File No. LR39772	250mA - 5A / 125V AC @ 100A and 63V DC @ 50A
Recognized File No. E20624	7A / 63V AC and DC @ 50A

### RoHS Compliant Product

RoHS Reflow Reference : JEDEC J-STD-020C (260°C, 40 sec max)  
RoHS Wave Soldering Compatible : (260°C, 10 sec max)

### Environmental Specification

#### Shock Resistance

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

#### Vibration Resistance

MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion)

#### Salt Spray Resistance

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

#### Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

#### Solderability

MIL-STD-202G, Method 208H

#### Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side  
(260°C, 20 sec)

MIL-STD-202G Method 210F, Test Condition D. Bottom Side  
(260°C, 10 sec)

#### Thermal Shock Resistance

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

#### Operating Temperature

-55°C to +125°C

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% I <sub>n</sub> (Volt) max.	Melting I <sup>2</sup> T <10mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 I <sub>n</sub> (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)
CIQ 250	250mA	0.88	0.31	0.0018	0.0001	0.10
CIQ 375	375mA	0.47	0.26	0.0044	0.0004	0.12
CIQ 500	500mA	0.32	0.23	0.008	0.001	0.14
CIQ 750	750mA	0.175	0.19	0.019	0.002	0.18
CIQ 1	1A	0.119	0.17	0.035	0.004	0.21
CIQ 1.25	1.25A	0.087	0.16	0.057	0.006	0.24
CIQ 1.5	1.5A	0.070	0.15	0.084	0.010	0.28
CIQ 2	2A	0.049	0.14	0.15	0.019	0.35
CIQ 2.5	2.5A	0.038	0.14	0.25	0.032	0.43
CIQ 3	3A	0.032	0.14	0.37	0.050	0.52
CIQ 3.5	3.5A	0.028	0.14	0.53	0.072	0.62
CIQ 4	4A	0.025	0.14	0.67	0.094	0.71
CIQ 5	5A	0.021	0.15	1.10	0.16	0.96
CIQ 7	7A	0.018	0.18	3.10	0.37	1.57

Consult manufacturer for other ratings

### Physical Specification

#### Materials

Ceramic Substrate / Printed Element

#### Marking

On fuse:

None

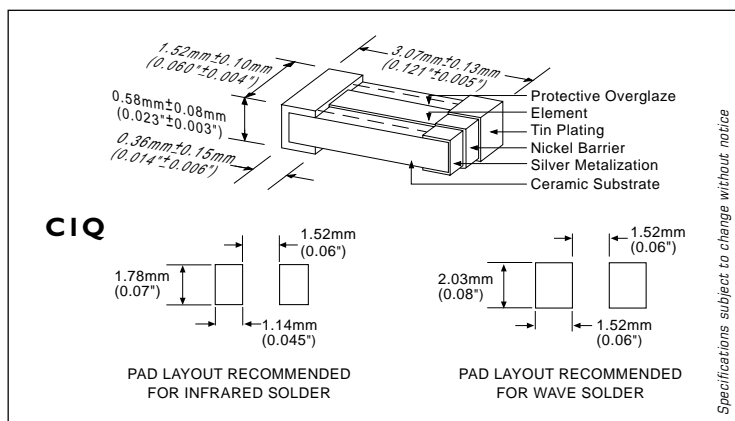
Label on reel:

“bel”, “CIQ”, “Current Rating”, “Voltage Rating”, “Interrupting Rating”,  
“Appropriate Safety Logos” and “” for RoHS Version

#### Packaging

5,000 fuses in 7 inches dia. reel, 8mm wide tape, 4mm pitch, per EIA-481  
(equivalent IEC-286 part 3)

### Mechanical Dimensions



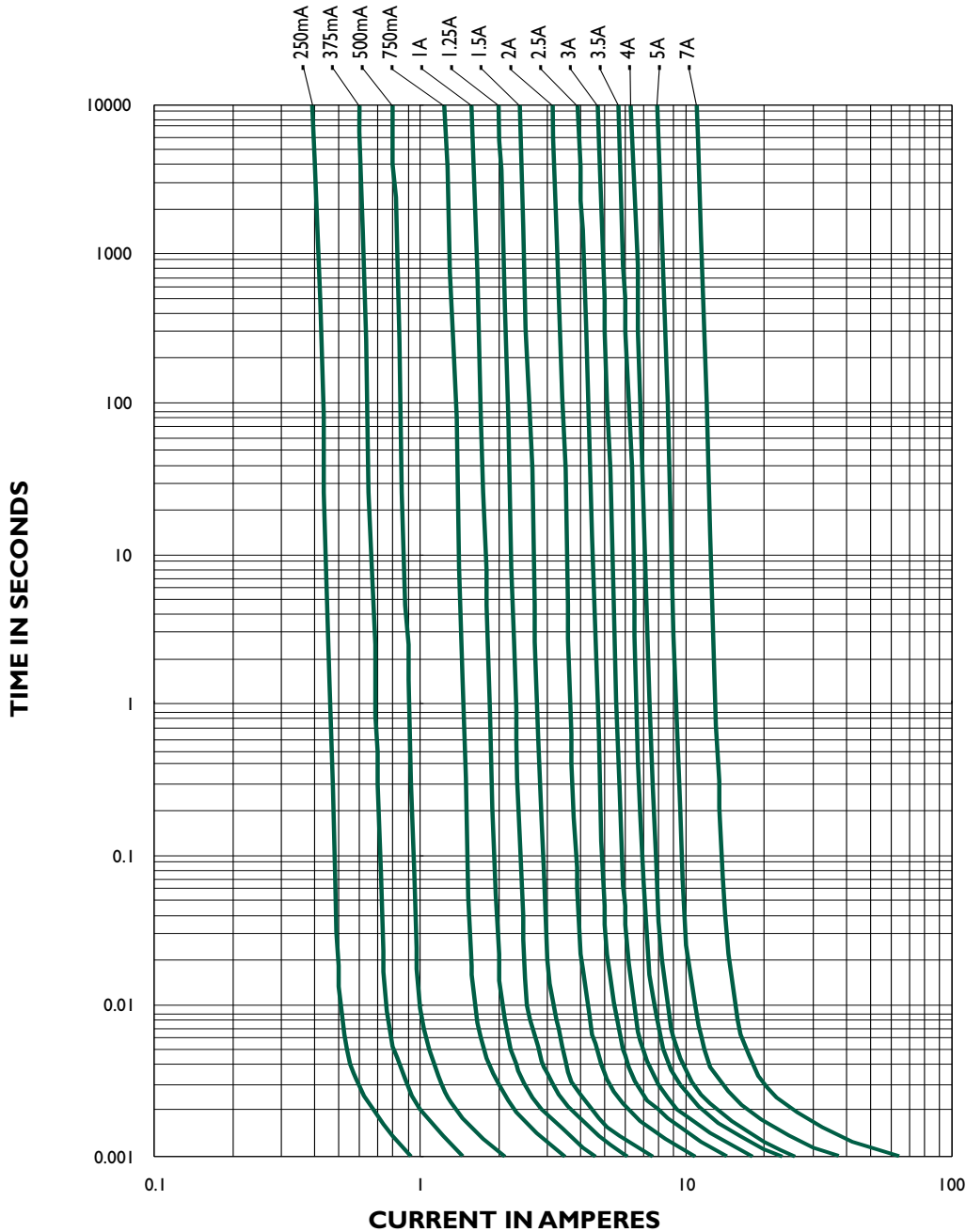
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**Type CIQ**  
Surface Mount Very Fast-Acting Chip Fuse

I206 size  
RoHS Compliant

CIQC1004

**CIQ - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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# Type CIS

## Surface Mount Slow Blow Chip Fuse

1206 size  
RoHS Compliant

CISDI005



### Electrical Characteristics (UL STD. 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	1 sec	120 sec
300%	0.1 sec	3 sec
800%	0.002 sec	0.05 sec

### Approvals



Safety Agency Approvals	Amp range / Volt @ I.R. ability
UL Recognized File No. E20624	750mA - 5A / 63V @ 50A AC / DC

### RoHS Compliant Product

RoHS Reflow Reference : JEDEC J-STD-020C (260°C, 40 sec max)

RoHS Wave Soldering Compatible : (260°C, 10 sec max)

### Environmental Specification

#### Shock Resistance

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

#### Vibration Resistance

MIL-STD-202G, Method 201F (10-55 Hz, 0.06 inch, total excursion)

#### Salt Spray Resistance

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

#### Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

#### Solderability

MIL-STD-202G, Method 208H

#### Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side  
(260°C, 20 sec)

MIL-STD-202G Method 210F, Test Condition D. Bottom Side  
(260°C, 10 sec)

#### Thermal Shock Resistance

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

#### Operating Temperature

-55°C to +125°C

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)
CIS 750	750mA	0.420	0.442	0.037	0.40
CIS 1	1A	0.220	0.325	0.068	0.39
CIS 1.25	1.25A	0.215	0.363	0.11	0.54
CIS 1.5	1.5A	0.108	0.313	0.24	0.56
CIS 2	2A	0.098	0.250	0.44	0.60
CIS 2.5	2.5A	0.053	0.212	0.74	0.64
CIS 3	3A	0.040	0.189	1.11	0.68
CIS 3.5	3.5A	0.031	0.173	1.58	0.74
CIS 4	4A	0.026	0.165	2.00	0.79
CIS 5	5A	0.019	0.153	3.40	0.92

Consult manufacturer for other ratings

### Physical Specification

#### Materials

Ceramic Substrate / Printed Element

#### Marking

On fuse:

None

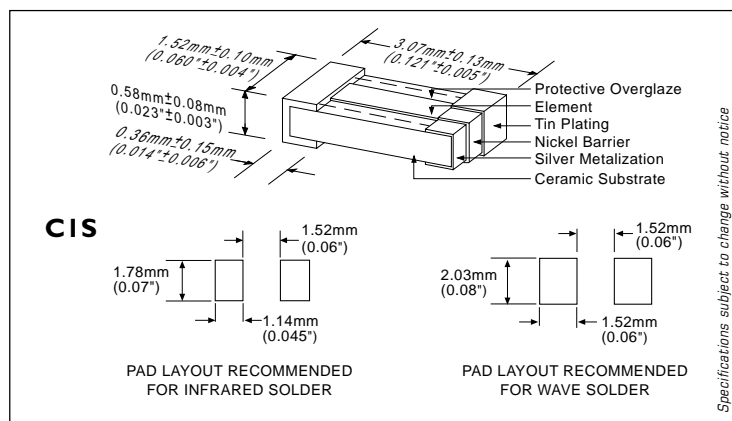
Label on reel:

“bel”, “CIS”, “Current Rating”, “Voltage Rating”, “Interrupting Rating”, “Appropriate Safety Logos” and “RoHS” for RoHS Version

#### Packaging

5,000 fuses in 7 inches dia. reel, 8 mm wide tape, 4 mm pitch per EIA-481 (equivalent IEC-286 part 3)

### Mechanical Dimensions



Specifications subject to change without notice

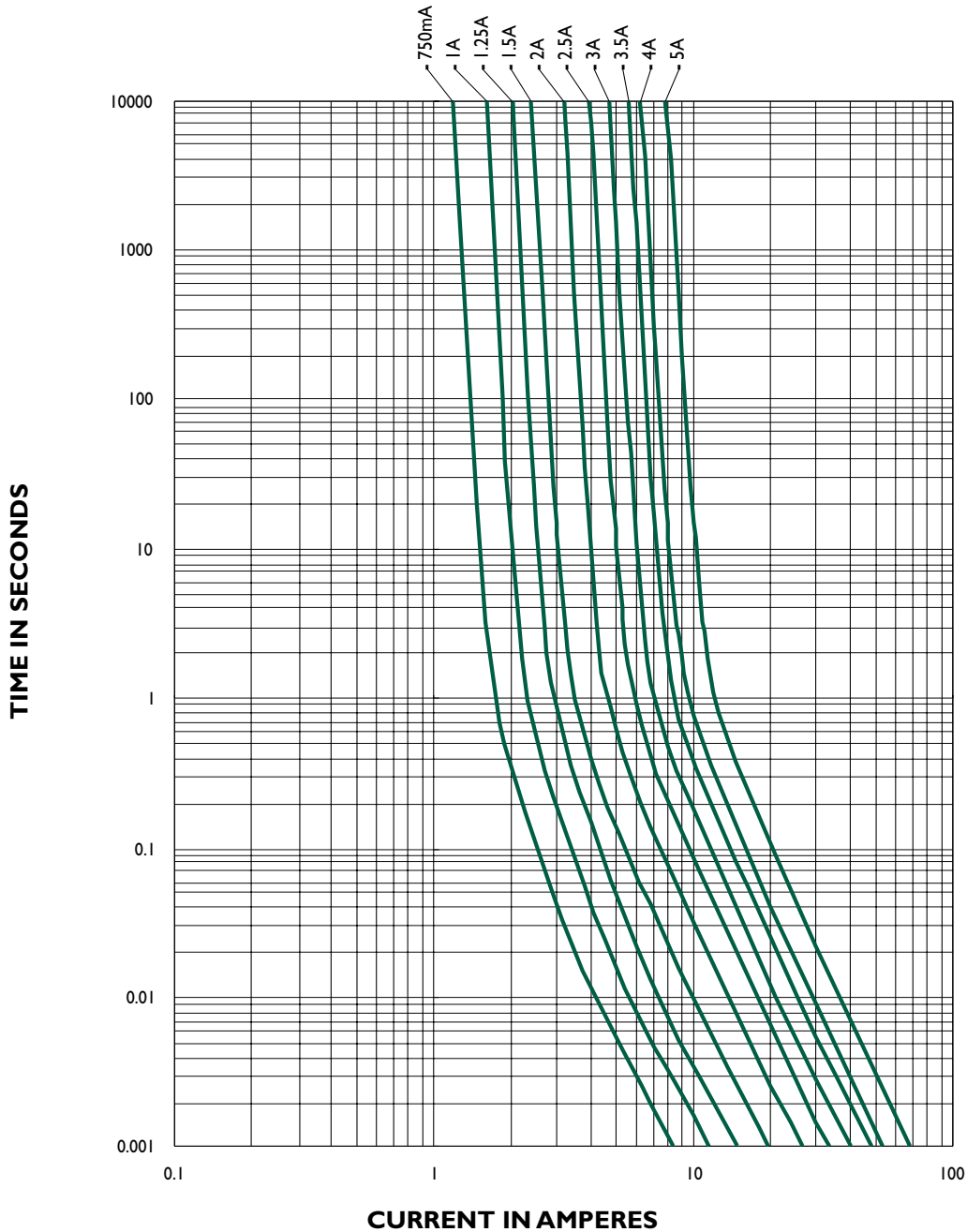
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**Type CIS**  
Surface Mount Slow Blow Chip Fuse

1206 size  
RoHS Compliant

CISC1004

**CIS - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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**Type C2Q**  
**Surface Mount Very Fast-Acting Chip Fuse**

0603 size  
RoHS Compliant

C2QD1005



**Electrical Characteristics** (UL STD. 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	5 sec
300%	N/A	0.2 sec

**Approvals**



Safety Agency Approvals	Amp range / Volt @ I.R. ability
UL Recognized File No. E20624	250mA - 4A / 32V AC @ 35A and 63V DC @ 50A
	5A / 32V AC & DC @ 50A

**RoHS Compliant Product**

RoHS Reflow Reference : JEDEC J-STD-020C (260°C, 40 sec max)  
RoHS Wave Soldering Compatible : (260°C, 10 sec max)

**Environmental Specification**

**Shock Resistance**

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

**Vibration Resistance**

MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion)

**Salt Spray Resistance**

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

**Insulation Resistance**

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

**Solderability**

MIL-STD-202G, Method 208H

**Soldering Heat Resistance**

MIL-STD-202G Method 210F, Test Condition C. Top Side  
(260°C, 20 sec)

MIL-STD-202G Method 210F, Test Condition D. Bottom Side  
(260°C, 10sec)

**Thermal Shock Resistance**

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

**Operating Temperature**

-55°C to +125°C

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Melting I <sup>2</sup> T <10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)
C2Q 250	250mA	0.70	0.277	0.002	0.0001	0.08
C2Q 300	300mA	0.52	0.259	0.003	0.0001	0.10
C2Q 375	375mA	0.41	0.245	0.005	0.0002	0.11
C2Q 500	500mA	0.29	0.227	0.009	0.0004	0.13
C2Q 750	750mA	0.17	0.203	0.020	0.0011	0.18
C2Q 1	1A	0.120	0.189	0.036	0.002	0.23
C2Q 1.25	1.25A	0.090	0.180	0.058	0.004	0.27
C2Q 1.5	1.5A	0.073	0.174	0.084	0.006	0.31
C2Q 2	2A	0.053	0.166	0.15	0.011	0.40
C2Q 2.5	2.5A	0.041	0.162	0.24	0.019	0.49
C2Q 3	3A	0.034	0.160	0.36	0.030	0.58
C2Q 3.5	3.5A	0.028	0.160	0.50	0.044	0.68
C2Q 4	4A	0.025	0.160	0.63	0.059	0.76
C2Q 5	5A	0.021	0.164	1.05	0.103	0.98

Consult manufacturer for other ratings

**Physical Specification**

**Materials**

Ceramic Substrate / Printed Element

**Marking**

On fuse:

None

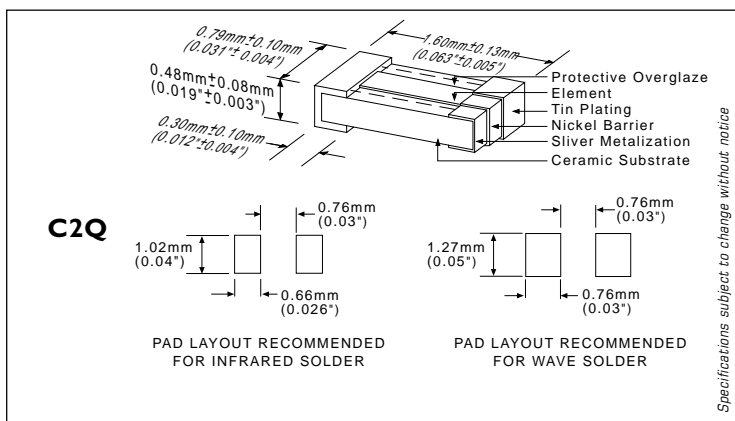
Label on reel :

“bel”, “C2Q”, “Current Rating”, “Voltage Rating”, “ Interrupting Rating”,  
“Appropriate Safety Logos” and “” for RoHS Version

**Packaging**

5,000 fuses in 7 inches dia. reel, 8 mm wide tape, 4 mm pitch per EIA-481  
(equivalent IEC-286 part 3)

**Mechanical Dimensions**



Specifications subject to change without notice

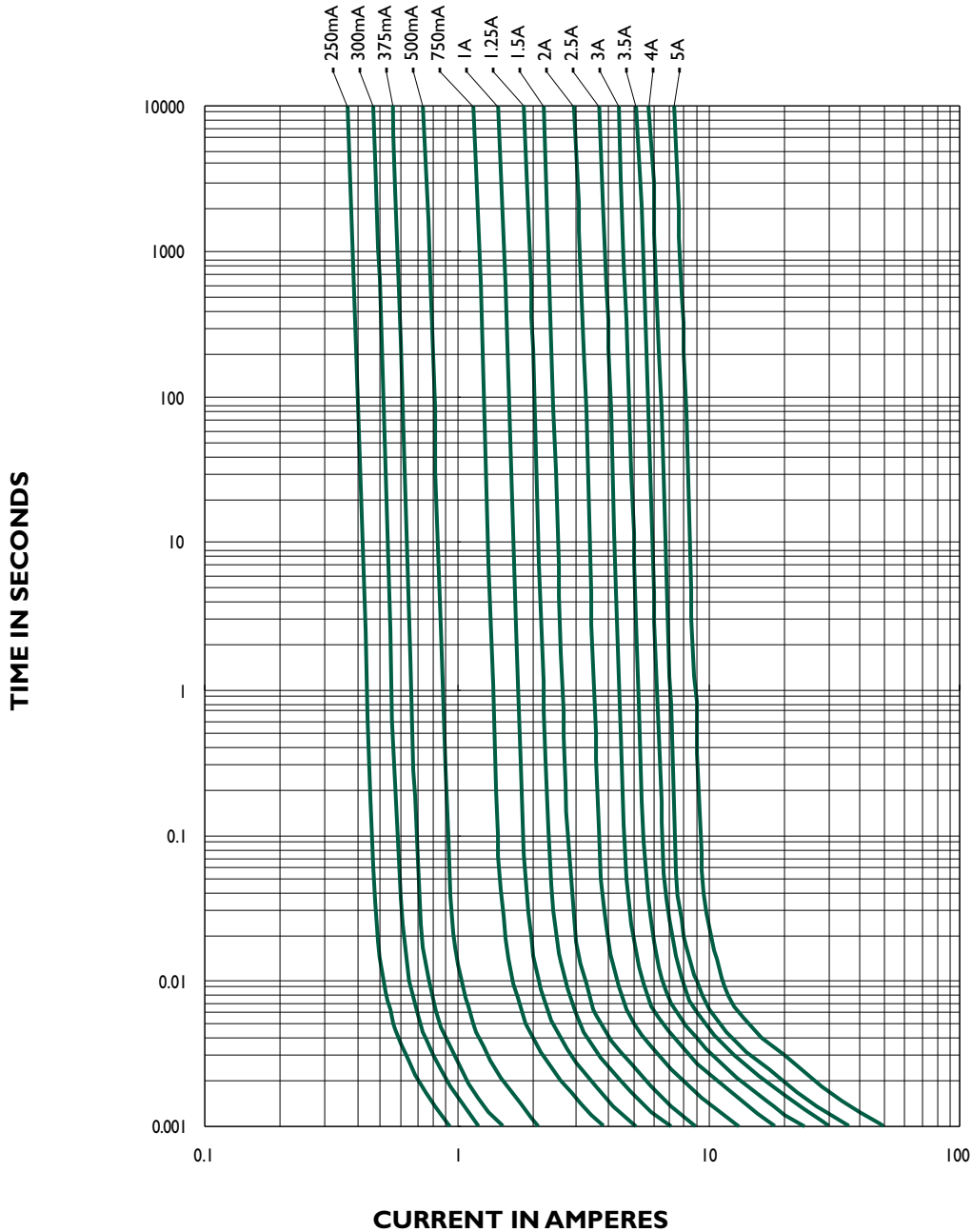
ORDERING INFORMATION SEE LAST 2 PAGES

**Type C2Q**  
Surface Mount Very Fast-Acting Chip Fuse

0603 size  
RoHS Compliant

C2QC1004

**C2Q - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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