A60Q

SEMICONDUCTOR PROTECTION FUSES

A60Q Amp-trap® Form 101 Semiconductor Protection fuses feature the only 600 volt AC/DC rating in the industry of similar size (1-1/2" x 13/32") fuses protecting semiconductors. A60Q also has the lowest I^2t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

Features/Benefits

- **Lowest I^2t** of any fuse this size for greater protection
- **Excellent cycling ability** gives advantage in equipment design
- **600V AC/DC rated**

Ratings

- **AC:** 5-40A 600VAC, 200kA I.R.
- **DC:** 5-40A 600VDC, 100kA I.R. L/R = 10ms

Approvals

- UL Recognized Component
- AC: UL Guide JFHR2 File E60314
- DC: UL File E60314

HIGHLIGHTS:

- 600VAC/DC Rated
- Extremely Fast Acting
- Current Limiting
- Lowest I^2t
- Excellent Cycling Ability

APPLICATIONS:

- Protection of small inverters and drives, and equipment requiring the highest degree of protection

Catalog Numbering System

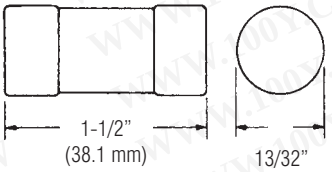
A	60	Q	30 - 2

- **Amp-trap® Fuse** — A
- **Rated Volts - 600** — 60
- **Style** — Q
- **Amperes** — 30
- **Mounting Type** — Ferrule, midget dims. (1-1/2" x 13/32") — 2

Standard Fuse Ampere Ratings, Catalog Numbers

AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
5	A60Q5-2	20	A60Q20-2
6	A60Q6-2	25	A60Q25-2
8	A60Q8-2	30	A60Q30-2
10	A60Q10-2	35	A60Q35-2
12	A60Q12-2	40	A60Q40-2
15	A60Q15-2		

For ampere ratings and styles not listed, call Technical Services.



FUSE HOLDERS FOR A60Q FUSES

USM Series . . . . .ULTRASAFE™ Fuse Holders
303 Series. . . . . .Midget Fuse Blocks

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

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SEMICONDUCTOR PROTECTION FUSES

I²t at 600VAC, 100kA

AMPERE RATING	MELTING I²t (A²s)	CLEARING I²t (A²s)
5	5	60
8	6.5	70
10	10	110
12	17	150
15	26	180
20	41	330
25	69	440
30	132	860
35	197	1300
40	276	1800

Watts Loss Data

AMPERE RATING	WATTS LOSS @ 80% RATING (W)	WATTS LOSS @ 100%RATING (W)
5	0.5	0.7
8	0.7	1.1
10	0.9	1.5
12	1.3	2.0
15	1.9	3.0
20	2.6	4.4
25	2.9	5.3
30	3.0	5.8
35	3.3	6.4
40	3.6	7.0

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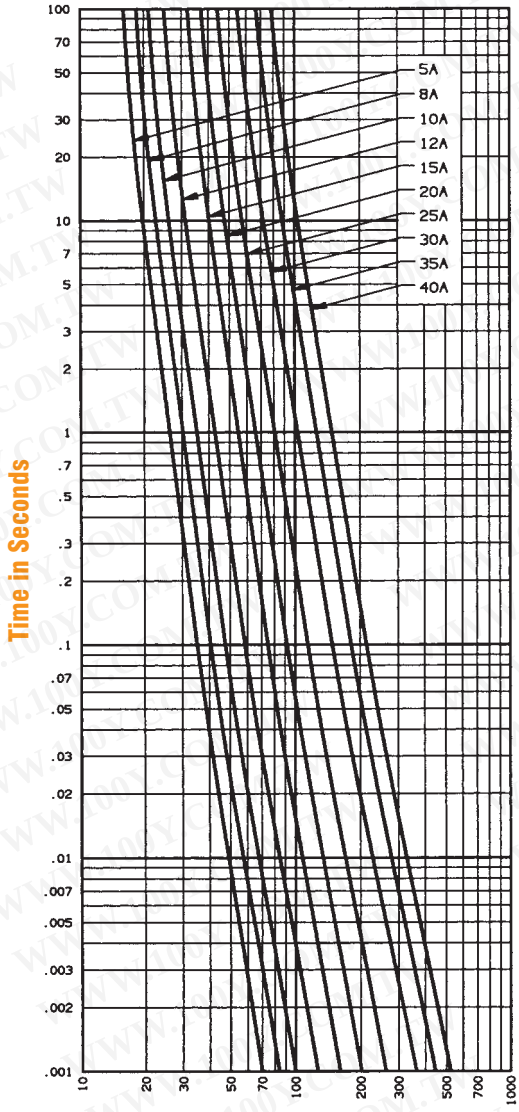
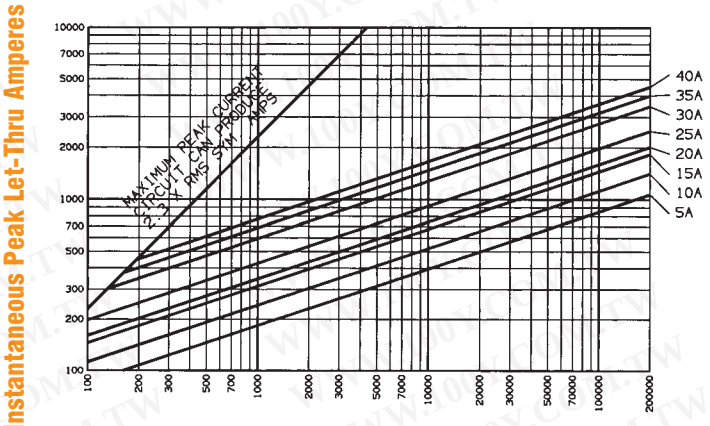
D

A60Q5 to 40

Melting Time – Current Data, 600V Fuses



Peak Let-Thru Current Data – A60Q5 to 40, 600 Volts AC



I²t at 600VDC,100kA, L/R = 10 ms

AMPERE RATING	CLEARING I²t (A²s)
5	40
8	42
10	70
12	90
15	110
20	200
25	260
30	520
35	780
40	1100