

# 1/4" x 1 1/4" Fast-Acting Ceramic Tube Fuses

**ABC Series** 

## Description

- Fast-acting
- Optional axial leads available
- 1/4" x 1 1/4" (6.4 x 31.7mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

Electrical Characteristics				
% of Amp Rating	Opening Time			
100%	4 Hours Minimum			
135%	60 Minutes maximum			
200%	120 Seconds Maximum			

#### **Agency Information**

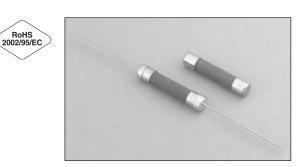
- UL Listed: Guide JDYX & File E19180.
- UL Recognition: Guide JDYX2 & File E19180.
- CSA Certification: Class 1422-01 & 1422-03, File 53787.

### **Environmental Data**

- Shock: ¼-30A MIL-STD-202, Method 213, Test Condition J
- Vibration: ¼-30A MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)

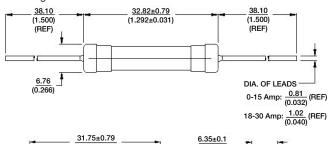
### Ordering

· Specify packaging, product, and option code



### Dimensions - mm (in)

Drawing Not to Scale





Specifications												
Part	Volta Ratir	0	Vac Interrupting Ratings* (amps)		Vdc Interrupting Ratings (amps)		Typical DC Cold	Typical	Typical Voltage	Agency Approvals		rovals
Number	Vac	Vdc	250	125	125	75	Resistance (Ω)**	Pre-Arc I <sup>2</sup> t AC†	Drop (mV)‡	UL	UR	CSA
ABC-1/4-R	250	125	35	10,000	10,000	-	2.950	0.0020	0.35	Х		Х
ABC-1/2-R	250	125	35	10,000	10,000	-	0.587	0.0390	0.41	Х		Х
ABC- <sup>3</sup> / <sub>4</sub> -R	250	125	35	10,000	10,000	-	0.300	0.1450	0.32	Х		Х
ABC-1-R	250	125	35	10,000	10,000	-	0.1950	0.4310	0.3	Х		Х
ABC-1-1/2-R	250	125	100	10,000	10,000	-	0.131	1.1630	0.28	Х		Х
ABC-2-R	250	125	100	10,000	10,000	-	0.0890	2.1670	0.31	Х		Х
ABC-2-1/2-R	250	125	100	10,000	10,000	-	0.061	4.4670	0.23	Х		Х
ABC-3-R	250	125	100	10,000	10,000	-	0.047	6.55	0.14	Х		Х
ABC-4-R	250	125	200	10,000	10,000	-	0.031	22.28	0.17	Х		Х
ABC-5-R	250	125	200	10,000	10,000	-	0.026	32.83	0.22	Х		Х
ABC-6-R	250	125	200	10,000	10,000	-	0.021	58	0.19	Х		Х
ABC-7-R	250	125	200	10,000	10,000	-	0.016	109.33	0.17	Х		Х
ABC-8-R	250	125	200	10,000	10,000	-	0.014	116.5	0.19	Х		Х
ABC-10-R	250	125	200	10,000	10,000	-	0.011	208.8	0.15	Х		Х
ABC-12-R	250	125	750	10,000	10,000	—	0.0068	133.3	0.1	Х		Х
ABC-15-R	250	125	750	10,000	10,000	-	0.00553	200.2	0.1	Х		Х
ABC-18-R	250	-	400	1000	-	-	0.00465	400	0.1		Х	Х
ABC-20-R	250	125	400	1000	10,000	-	0.00366	550.8	0.1		Х	Х
ABC-25-R	250	125	200	1000	400	1000	0.0028	839.3	0.09		Х	X‡‡
ABC-30-R	250	125	200	1000	400	1000	0.002225	1429	0.09		Х	X‡‡

Interrupting ratings measured at 70% - 80% power factor on AC. The interrupting ratings for 18A and 20A were measured at 85% - 95% power factor on AC. The interrupting ratings for 25A and 30A were measured at 89% power factor on AC.

\*\* Typical DC cold resistance measured at <10% of rated current.

+ Typical melting I<sup>2</sup>t measured at listed interrupting rating and rated voltage.

<sup>±</sup> Typical voltage drop measured at 25°C±3°C ambient temperature at rated current.

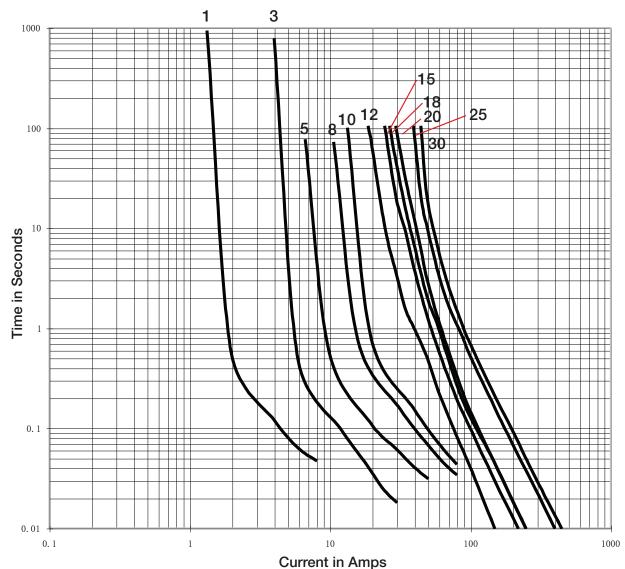
## CSA approvals for 25A and 30A are at 125Vac - IR 1000A and 125Vdc - IR 400A (IR 1000A at 75Vdc)

0909 BU-SB09836

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## **Time-Current Curve**



Packaging Code			
Packaging Code	Description		
BK	100 fuses packed into a cardboard carton		
BK1	1,000 fuses packed into a cardboard carton		

8,000 fuses packed into a cardboard carton

	Option Code
Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps

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BK8