Type 0AMA

3x8.4mm Fast-acting Fuses for hazardous applications

0AMA Series

RoHS Compliant

Description

250V AC/DC rated ceramic tube fuse

Features

- designed for barrier circuits in intrinsic safety applications relating to Hazardous Locations
- Meets electrical performance specifications for intrinsically safe(EN60079-11) applications
- Fast-acting, high interrupting rating of 4000A at 250Vac/dc
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free



Applications

-Hazardous Locations and Environments
-Intrinsically safe network barriers
-Electrical connections and components
-Test equipment
-Petrochemical processing and refining equipment
-Pulp and paper processing equipment

HALOGEN FREE = HF

Physical Specifications

Materials	Body : Ceramic
	Terminals : Silver plated brass
Marking	On Fuse :
	“Color coding for Current Rating”,
	On Label :
	"bel", "0AMA”, "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " ", " "(China RoHS compliant).

Electrical Characteristics

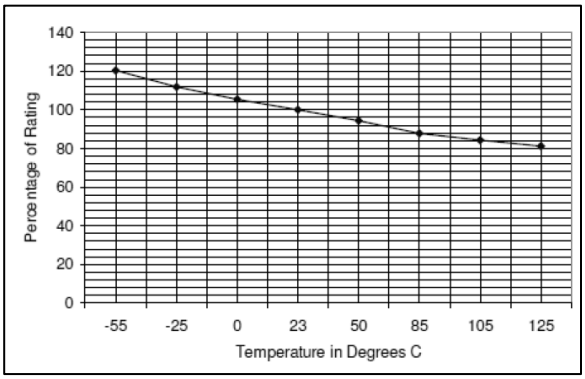
1.1 In	3.0In	10.0In
4 hours min.	10 sec max.	0.002 sec max.

Ratings

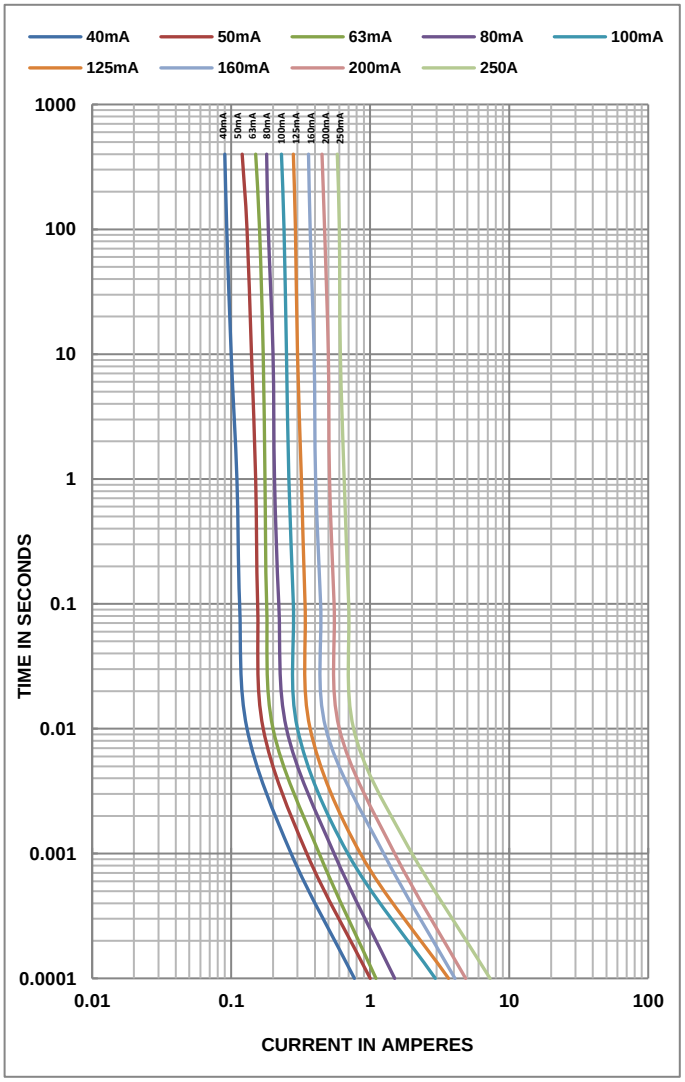
Safety Agency	Safety Agency Certificate	Ampere Rating / Voltage Rating	Ampere Range / Volt @ I.R. ability*
c UL us	E491441	40mA-250mA/250V DC 250V AC	40mA-250mA/250V @ 4kA DC 250V @ 4kA AC
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Temperature Rerating Curve

Operating Temperature: -55°C to +125°C,
with proper rerating factor applied



Average Time Current Curve



Electrical Specifications

Part Number	Rated Current	Voltage and Interrupting Ratings	Typical Cold. Resistance (Ω)	I²t * (A²sec)	color coding	Agency Approvals
				Pre-arcing		cULus
0AMA-0040-TD	40mA	See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings	14.2	0.00006	Grey	Y
0AMA-0050-TD	50mA		9.40	0.00010	Red	Y
0AMA-0063-TD	63mA		8.80	0.00012	Pink	Y
0AMA-0080-TD	80mA		5.10	0.00018	Green	Y
0AMA-0100-TD	100mA		2.87	0.00087	Yellow	Y
0AMA-0125-TD	125mA		2.20	0.00134	Orange	Y
0AMA-0160-TD	160mA		2.05	0.00166	Violet	Y
0AMA-0200-TD	200mA		1.01	0.00237	Brown	Y
0AMA-0250-TD	250mA		0.71	0.00530	Black	Y

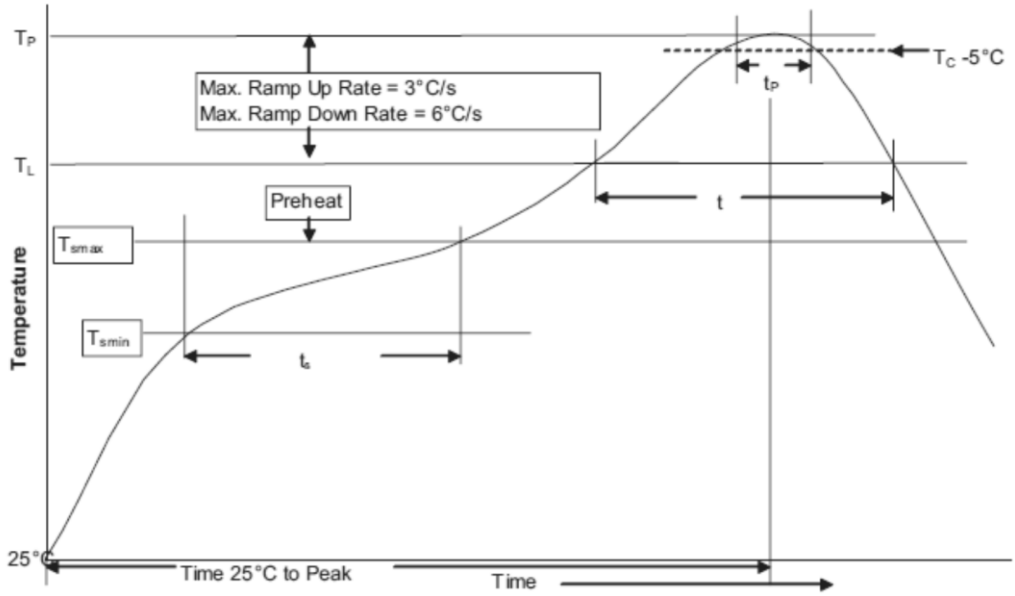
Consult manufacturer for other ratings
* I²t is measured with 10In.

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Soldering Parameters



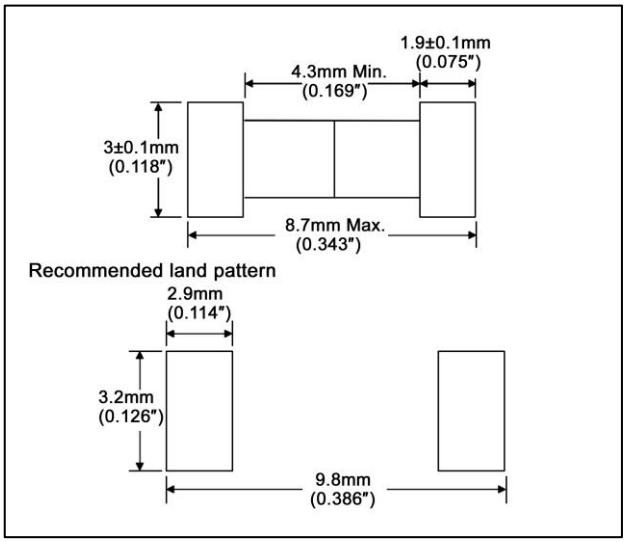
Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min.(T_{smin})	150℃
	• Temperature max. (T_{smax})	200℃
	• Time (T_{smin} to T_{smax}) (t_S)	60 - 120 Seconds
Average ramp up rate T_{smax} to T_p		3℃ / Second Max.
Liquidous temperature (T_L) Time at liquidous (t_L)		217℃ 60 - 150 Seconds
Peak package body temperature (T_P)		260℃
Time (t_P) within 5℃ of the specified classification temperature (T_C)		30 Seconds
Average ramp-down rate (T_P to T_{smax})		6℃ / Second Max.
Time (25℃ to Peak Temperature)		8 Minutes Max.

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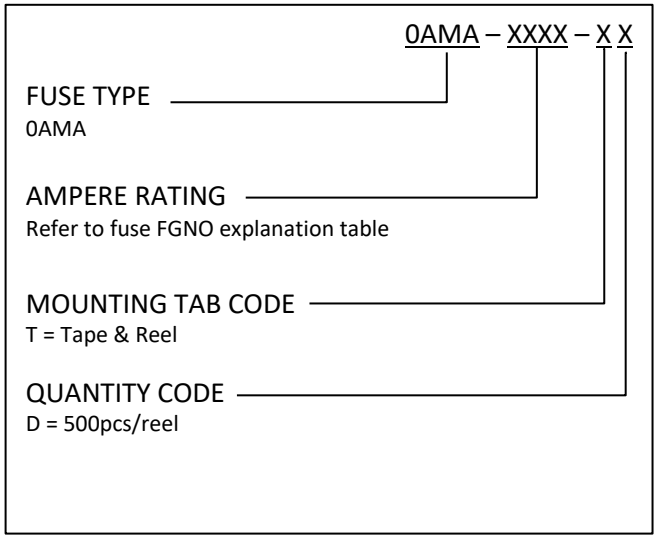
Fuse FGNO Explanation
0AMA - [XXXX] -TD
0AMA=0AMA; [XXXX]=Ampere Rating; TD=See Ordering Information as below

Amps	Bel FGNO[XXXX]
40mA	0040
50mA	0050
63mA	0063
80mA	0080
100mA	0100
125mA	0125
160mA	0160
200mA	0200
250mA	0250

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Quantity	Packaging Code
Tape (width 24mm) and reel (dia. 13inch)	500	TD

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