462 Series Fuse



Agency Approvals				
AGENCY	AGENCY FILE NUMBERS	AMPERE RANGE		
c RL ° us	E67006	0.5A - 5A		
	40022235	1A, 1.6A, 2A, 3.15A, 4A		
PS	NBK250416-JP1021	1A - 1.6A		
PSE	JET1896-31007-1005	2A - 5A		
	CQC14012115883	1.6A		
ΨM	E242325	0.5A - 5A		

Additional Information

Datasheet





Electrical Specifications by Item

Description

The 462 series Nano^{2®} Surface Mount Fuse has time-lag current characteristics with interrupting ratings rated at 250V and 350V. It complies with IEC 60127-4 Universal Modular Fuse-Links.

RoHS HF

Features

- Heat resistant plastic housing, UL 94 V-0
- Designed for line or low voltage applications
- Low voltage drop
- Internationally approved
- High pulse resistance
- **Applications**
- Lighting ballast
- AC/DC adaptor primary protection
- Transformerless AC/DC converter circuit

• Lead-free -- compatible

• Available in ratings of

• Halogen-free and RoHS

profiles

0.5A to 5A

compliant.

with lead-free solders and higher temperature

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• High DC voltage power distribution system

Electrical Characteristics for Series

% of Amp Rating	OpeningTime		
125%	1 hour, Minimum		
200%	2 minutes, Maximum		
1000%	10 milliseconds, Minimum 100 milliseconds, Maximum		

Ampere		Max		Nominal	Nominal	Nom	Nom		Ager	ncy Approv	/als³	
Rating (A)	Amp Code	Voltage Rating (V)⁵	Interrupting Rating	Cold Resistance (Ohms) ¹	Melting I ² t (A ² sec)	Voltage Drop (mV)	Power Dissipation (mW)	c FL [°] us		W M	()	PS H
0.500	0500			0.2270	0.43	160	200	Х		Х		
0.630	0630			0.1570	0.80	160	200	Х		Х		
0.800	0800			0.1300	1.40	160	250	Х		Х		
1.00	1100		100A @	0.0867	2.70	140	250	Х	Х	Х		Х
1.25	1125		350VAC/VDC ⁴	0.0602	5.20	130	250	Х		Х		Х
1.60	1160	250	150A @	0.0443	9.70	130	280	Х	Х	Х	Х	X
2.00	1200	250	250VAC/VDC	0.0335	5.44	120	300	Х	Х	Х		Х
2.50	1250			0.0278	8.00	120	450	Х		Х		Х
3.15	1315			0.0204	14.00	110	600	Х	Х	Х		Х
4.00	1400			0.0158	21.00	110	800	Х	Х	Х		X
5.00	1500		150A @ 250VAC/VDC	0.0124	40.00	110	1000	х		х		X

1. Cold resistance measured at less than 10% of rated current at 23°C

Cold resistance measured at less than 10% or later current at 25 G
Pt values slated for 8ms opening time
Agency Approval Table Key: X = Approved or Certified, P = Pending
UL Recognition - IR at 100A @ 350 VAC/VDC
Rated at 350VAC/VDC per UL Recognition under UL248 (up to 4A only). Rated at 250VAC/VDC per VDE under IEC standard 60127-4.

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Temperature Re-rating Curve



Note: 1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.



Soldering Parameters

Reflow Condition		Pb – free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-Temperature Max (T _{s(max)})	200°C		
	-Time (Min to Max) (t _s)	60 – 120 seconds		
Average R (T _L) to pea	amp-up Rate (LiquidusTemp k)	5°C/second max.		
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.		
Reflow	-Temperature (T _L) (Liquidus)	217°C		
	-Temperature (t _L)	60 – 90 seconds		
PeakTemp	erature (T _P)	250 ^{+0/-5} °C		
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds		
Ramp-down Rate		5°C/second max.		
Time 25°C to peak Temperature (T _P)		8 minutes max.		





Product Characteristics

Materials	Body: Plastic UL 94 V-0 Cap: Tin-plated brass		
Product Marking	Body: Brand Logo, "T" for Time-Lag, Current Rating, L Voltage Rating, UMF logo		
Solderability	IEC 60068-2-58		
Reistance to Soldering Heat	IEC 60068-2-58		

Operating Temperature	-40°C to +85°C with proper derating		
Climatic Category	IEC60068-1, -2-1, -2-2, -2-78 (–40°C to +85°C / 21 days)		
Vibration	IEC60068-6 (24 cycles of 15 mins each, 1-60 Hz at 0.75mm amplitute, 60-2000 Hz at 10g acceleration)		
Moisture Sensitivity Level	J-STD-020, Level 1		

Part Numbering System



Dimensions





Packaging					
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code		
16mm Tape and Reel	IEC 60286, part 3	1500	0		

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