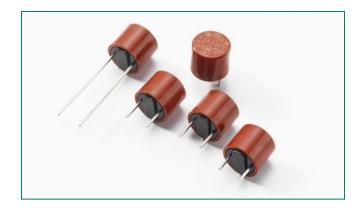


382 Series, TR5® Fuse, Time-Lag





Agency Approvals

Agency	Agency File Number	Ampere Range
D VE DVE	40018249 40018250	1A - 4A 5A - 6.3A
\bigcirc	1609346	1A - 6.3A
c FL °us	E67006	1A - 10A
PSE	JET1896-31007-2001 JET1896-31007-1006	1 - 5A 6.3 - 10A
(W)	2007010207240344	1A - 4A
Cec	CQC07012020713	5A - 6.3A
	SU05024-7003 SU05024-7002 SU05024-7001 SU05024-7004 SU05024-7005	1-2.5A 3.15A 4A 5A 6.3A

Description

The 382 Series are TE5 Time-Lag type Fuses, 250V rated, with enhanced breaking capacity and designed in accordance to IEC 60127-3.

Features

- Halogen free, Lead-free and RoHS compliant
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- 100A breaking capacity
- Internationally approved

- Low internal resistance
- · Shock safe casing
- Vibration resistant
- Available from 1A to 10A

Applications

- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers

Electrical Characteristics

% of	Opening Time				
Ampere Rating	1A - 6.3A	8A - 10A			
150%	1 Hour, Min.	1 Hour, Min .			
210%	2 Minutes, Max.	300 s, Max.			
275%	400 ms, Min. ; 10 Sec., Max .	1 s, Min. ; 20 s, Max .			
400%	150 ms, Min. ; 3 Sec., Max .	150 ms, Min. ; 3 Sec., Max .			
1000%	20 ms, Min. ; 150 ms, Max.	20 ms, Min. ; 150 ms, Max.			

Additional Information



Datasheet



Resources



Samples



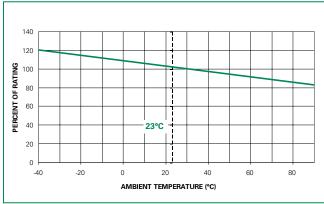
Electric	2-1	n an ran	272	CTICS
LICULIU	ин От	Hallat.	7.7	

	5	N/ 11	5	Nominal	Voltage	Power	Melting		Å	Agency A	Approva	als	
Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Cold Resistance (Ohms)	Drop 1.0×l _N max. (mV)	Dissipation 1.5×I _N max. (mW)	Integral 10×I _N min. (A²s)	Ô ^V E	(2)	c '71 ° us	PSE	(M)	
1100	1.00 A	250 V		0.0625	100	400	4.85	Х	Х	Х	Х	Х	Х
1125	1.25 A	250 V		0.0500	95	465	6.88	Х	Х	Х	Х	Х	Х
1160	1.60 A	250 V		0.0377	90	490	12.67	Х	Х	Х	Х	Х	Х
1200	2.00 A	250 V		0.0280	85	670	17.80	Х	Х	Х	Х	Х	Х
1250	2.50 A	250 V		0.0215	80	750	29.69	Х	Х	Х	Х	Х	Х
1315	3.15 A	250 V	100A @250VAC	0.0176	75	900	45.35	Х	Х	Х	Х	Х	Х
1400	4.00 A	250 V	@230VAC	0.0138	70	1200	72.00	Х	Х	Х	Х	Х	Х
1500	5.00 A	250 V		0.0108	65	1250	121.25	Х	Х	Х	Х	cac	Х
1630	6.30 A	250 V		0.0076	65	1400	148.84	Х	Х	Х	Х	cac	Х
1800	8.00 A	250 V		0.0059	63	1600	233.60			Х	Х		
2100	10.00 A	250 V		0.0042	57	1600	365.00			Х	Х		

Notes:

- 1. 1.00 means the number one with two decimal places. 1,000 means the number one thousand.
- 2. Resistance is measured at 10% of rated current, 25°C.

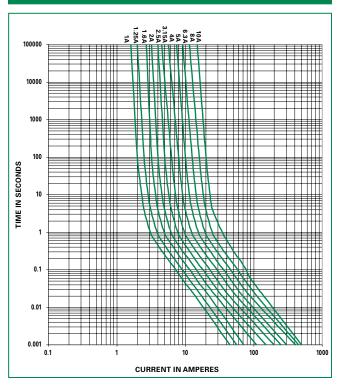
Temperature Re-rating Curve



Note:

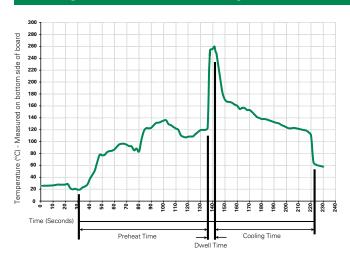
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves





Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100°C		
Temperature Maximum:	150°C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	260°C Maximum		
Solder Dwell Time:	2-5 seconds		

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

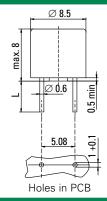
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

Materials	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0 Round Pins: Copper, Tin-plated	
Lead Pull Strength	10 N (IEC 60068-2-21)	
Solderability	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)	
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)	

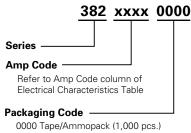
Operating Temperature	-40°C to +85°C (consider re-rating)	
Climatic Category	-40°C to +85°C /21 days (IEC 60068-1,-2-1,-2-2,-2-78)	
Stock Conditions	+10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%	
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration	

Dimensions



Long Leads (L=18.8mm) Short Leads (L=4.3mm)

Part Numbering System



0410 Short Leads - Bulk (1,000 pcs.) 0430 Short Leads - Bulk (200 pcs.)

Packaging

Packaging Option	Packaging Specification	Quantity Quantity & Packaging Code		Taping Width
382 Series				
Tape & Ammopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0410	N/A
Short Leads	N/A	200	0430	N/A

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.