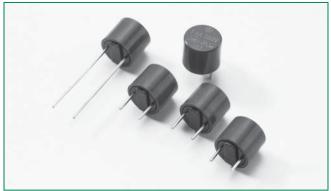


# RoHS 6 383 Series, TR5®, Time-Lag Fuse









# **Agency Approvals**

Agency	Agency File Number	Ampere Range
VDE	5007679-1170-0038/92585	4A - 5A
PS	JET1896-31007-2001 JET1896-31007-1003	1A - 5A 6.3A - 10A
c <b>FU</b> °us	E67006	1A - 10A

## **Description**

TR5®, Time-lag type, 300V rated and designed in accordance to IEC60127-3.

#### **Features**

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shocksafe casing
- Vibration resistant
- Halogen free

#### **Applications**

• Electronic Ballast

#### **Electrical Characteristics for Series**

% of Ampere Rating	Opening Time (1A-6.3A)		
150%	1 Hour, Minimum		
210% 120 sec., Maximum			
275%	400 ms., Min.; 10 sec., Max.		
400%	150 ms., Min.; 3 sec., Max.		
1000%	20 ms., Min.; 150 ms., Max.		

#### **Electrical Characteristics for Series**

% of Ampere Rating		Opening Time (8A-10A)	
150% 1 Hour, Minimum			
	210%	300 sec., Maximum	
	275%	1 sec., Min.; 20 sec., Max.	
	400%	150 ms., Min.; 3 sec., Max.	
	1000%	20 ms., Min.; 150 ms., Max.	

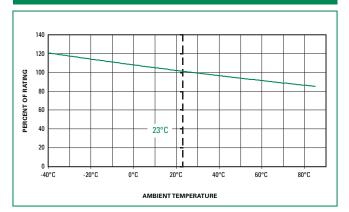
#### **Electrical Characteristics Specifications by Item**

Amp Code	Amp Rating	Max Voltage Rating	Breaking Capacity 50-60Hz/cosφ =1	Voltage Drop 1.0 x 1 <sub>N</sub>	Power Dissipation 1.5 x 1 <sub>N</sub>	Melting Integral 10 x 1 <sub>N</sub>	Agency Approvals		
Code	(A)	(V)	50-60H2/C0Sψ = I	max. (mV)	max. (mW)	min. (A <sup>2</sup> s)	<b>₩</b>	PS	c <b>FL</b> ius
1100	1.00	300		100	400	3.0		Χ	Х
1125	1.25	300	100A@300VAC 50A@300VAC	95	465	4.5		Χ	X
1160	1.60	300		90	490	9.0		Х	X
1200	2.00	300		85	670	12		Χ	X
1250	2.50	300	30A@300VAC	80	750	22		Χ	X
1315	3.15	300		75	900	32		Χ	X
1400	4.00	300		70	1200	58	Χ	Χ	X
1500	5.00	300	50A@300VAC	65	1250	90	Χ	Χ	X
1630	6.30	300		65	1400	105			X
1800	8.00	300		63	1600	180			Х
2100	10.00	300		57	1600	260			X

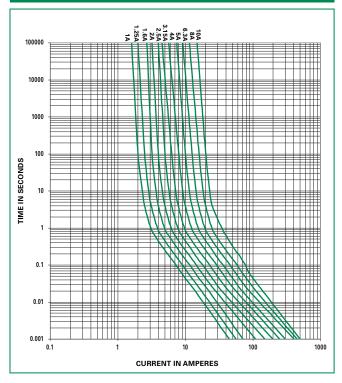
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.



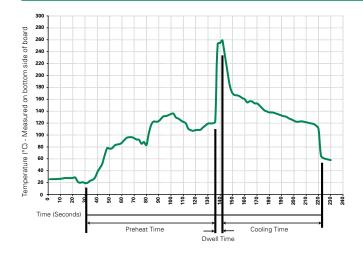
#### **Temperature Rerating Curve**



#### **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 DwellTime:	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.

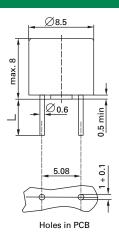


#### **Product Characteristics**

Materials	Base/Cap: Brown Thermoplastic Polyamide PA6.6, UL 94 V0 Round Pins: tin-plated Copper		
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 (IEC60068-2-20) 350°C, 3s (Soldering Iron)		

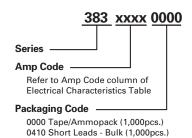
Operating Temperature	-65°C to +125°C (based on internal thermal cycle test up 125°C consider de-rating)		
Climatic Category	-40°C / +85°C / 21days (EN60068-1,-2-1,-2-2,-2-78)		
Stock Condition	+10°C to +60°C relative humidity 75% yearly average, without dew, maximum value for 30 days-95%		
Vibration Resistance	24 cycles at 15min. Each (EN60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10g acceleration		

#### **Dimensions**



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

### **Part Numbering System**



# **Packaging**

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

**Radial Lead Fuses** TR5® > Time-Lag > 383 Series