



Description

12T Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Features

AEC-Q200 Automotive Grade Certified Rapid interruption of excessive current

Compatible with reflow and wave solder

Ceramic and glass construction

One time positive disconnect

Lead Free and Halogen free material

Applications

Power supplies

Consumer Electronicsii

- Battery Chargers
- Industrial Controllers

Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	200% of Ampere Rating	250% of Ampere Rating	300% of Ampere Rating	350% of Ampere Rating	1000% of Ampere Rating
630mA~3A	4 Hour, Min	1Sec.~60sec.	5Sec.,Max	0.1SEC.~3sec.	-	0.2ms~20ms
3.5A~5A	4 Hour, Min	-	5Sec.,Max	0.1SEC.~3sec.	-	0.2ms~20ms
6A~30A	4 Hour, Min	-	-		5Sec.,Max	0.2ms~20ms

Electrical Characteristic Specifications by Item

	Rated	Rated	Breaking	Cold.	Max.	Typical Pre-	Alpha
Part No	Voltage	Current	Capacity (A)	Resistance	Voltage	Arcing I ² t	Mark
	DC	(A)	1	(mOhms) 2	Drop (mV)	(A ² Sec) 3	
12T0630		0.630	50A@72V 50A@63V 50A@32V	1080	950	0.009	В
12T0750		0.750		850	900	0.010	.75
12T1100		1		480	510	0.11	н
12T1125		1.25		330	500	0.15	Н
12T1150	72V	1.5		230	367	0.17	к
12T1200	63V	2		135	316	0.41	N
12T1250	32V	2.5		75	240	0.68	0
12T1300		3		47	187	1.5	Р
12T1350		3.5		38	180	2	R
12T1400		4		34	173	2.5	S
12T1450	32V	4.5	50A@32V	29	164	2.65	х
12T1500		5		24	145	4	Т
12T1600		6		16	140	12	F
12T1700		7		12.3	130	14	7
12T1800		8		8.3	123	16	М
12T2100		10	300A@24V 150A@32V	6.5	110	22	U
12T2120	32V 24V	12		5.0	85	11.5	12
12T2120.HW		12		5.3~6.3	80	18~25	12
12T2150		15		3.7	78	16.5	15
12T2150.HW		15		4.5	85	45	Y
12T2200		20		3.4	80	50	Q
12T2250		25		1.6	90	60	L
12T2300		30		1.3	90	100	Z



- * DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- * DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- * Typical Pre-arching I²t are measured at 10In Current For 1A-5A, the color of glass coating is Green; for others, it's Blue.



Type 12T 1206 Slow-Blow SMD Fuses







Temperature Re-rating Curve

* Normal ambient temperature: 23+/-3°C

*Operating temperature: -55 ~ 125 ℃, with proper correction factor applied



Note: Derating depicted in this curve is in addition to the standard derating of 25% of continuous operation

Soldering method

Wave solder

Reservoir temperature: 260°C

Time in reservoir: 10 seconds maximum

Infrared reflow

Temperature: 260 ℃

Time: 30 seconds maximum

Solder Reflow Profile

Reflow Condition		Pb-Free	
		assembly	
	-Temperature Min(T _{s(min)})	150 ℃	
Pre Heat	-Temperature Max(T _{s(max)})	200 ℃	
	-Time (Min to Max)(t _s)	60-180 secs	
Average ramp up rate	5℃/second max		
Ts(max)to T _L Ramp-u	5℃/second max		
Defleur	-Temperature(T _L)(liquidus)	217 ℃	
Reliow	-Temperature(t _L)	60-150 seconds	
Time within 5℃ of act	20-40 seconds		
Ramp-down Rate	5℃/second max		
Time 25℃ to pesk Te	8 minutes Max.		
Do not exceed	260 ℃		



Pad Layout(Unit:mm/inch)



Ordering Information

485357

C



US

Packaging

Packaging Option	Packaging Specification	Quantity
12T	tape-and-reel	3000