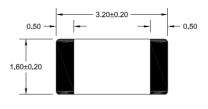
1206 Slow Blow SMD Fuses









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

- Battery Chargers
- Consumer Electronicsii
- 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
750mA~3A	4 Hour, Min	1Sec.~60sec.	5Sec.,Max	0.1SEC.~3sec.	-	0.2ms~20ms
3.5A~6A	4 Hour, Min	-	5Sec.,Max	0.1SEC.~3sec.	-	0.2ms~20ms
7A~20A	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)	(A2Sec) 3	Mark
12T0375		0.375		3200	2100	0.0032	E
12T0500		0.500		1425~2375	1500	0.0076	0.5
12T0750		0.750		850	1150	0.019	.75
12T1100		1	50A @ 70V	480	510	0.11	Н
12T1150	72V	1.5	50A@72V	230	367	0.17	к
12T1200	63V	2	50A@63V 50A@32V	140	316	0.41	Ν
12T1250		2.5	50A@32V	80	240	0.68	0
12T1300		3	-	50	187	1.5	Р
12T1350		3.5	-	38	180	2	R
12T1400		4		34	173	2.5	S
12T1450		4.5		25	164	2.65	Х
12T1500	32V	5	50A@32V	21.5	145	4	т
12T1600	45V	6	50A@45V	16	140	12	F
12T1700		7	-	12.3	140	6.6	7
12T1800	24V	8	300A@24V	10	123	16	М
12T2100	32V	10	150A@32V	7	110	22	U
12T2120		12	1	5	85	11.5	12
12T2150		15	1	3.5	78	16.5	15
12T2200	1	20	1	3.4	80	50	Q

Type 12T				® D		HALOGEN	
1206	6 Slow Blo	w SMD Fu	ses	C T	US CO	MPLIANT Pb-Fr	FREE
1	12T2250		25	1.6	90	60	L
1	12T2300		30	1.3	90	100	Z

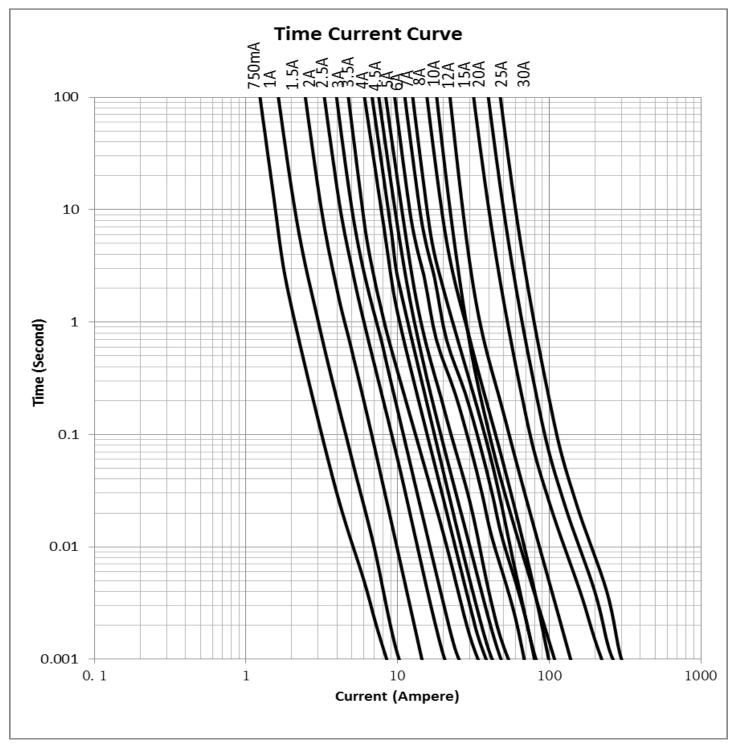
1.DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source) 2.DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

3.Typical Pre-arching I²t are measured at 10In Current

Choice fuse for surge application(USB charger etc.),make sure the I²T of fuse is 4 times than surge 4.Internal qualification for 8-30A@32Vdc,UL Approval is pending

5. Internal qualification for 4.5-7A@45Vdc, UL Approval is pending

Average Time Current Curves



Type 12T

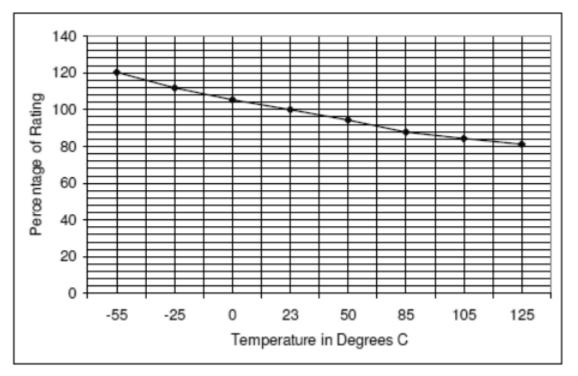
1206 Slow Blow SMD Fuses



Temperature Re-rating Curve

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

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



Soldering Method

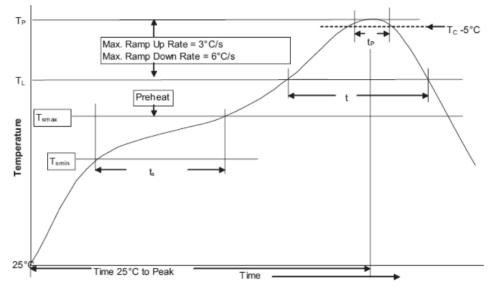
■ Wave solder Reservoir temperature:260°C Time in reservoir:10 seconds maximum

■Infrared reflow

Temperature:260°C

Time: 30 seconds maximum

Solder Reflow Profile

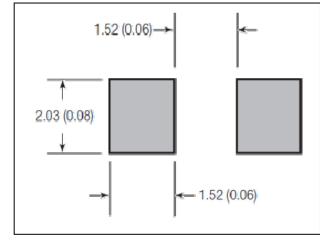


1206 Slow Blow SMD Fuses

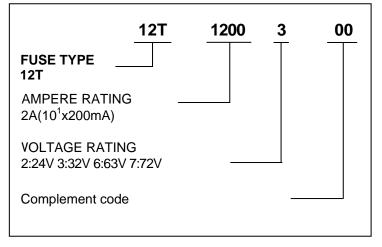


Profile Feature		Lead(Pb)free solder	
	Temperature min.(T _{smin})	150 ℃	
Preheat and soak	Temperature max.(T _{smax})	200 ℃	
	Time(T _{smin} to T _{smax})(ts)	60 - 120 Seconds	
Average ramp up rate T_{smax} to T_p		3℃ / Second Max.	
Liquidous temperature(TL)		217 ℃	
Time at liquidous(t _L)		60 – 150 Seconds	
Peak package body temperature(T	-p)	260 ℃	
Time(T _p)within 5 $^{\circ}$ C of the specified	30 Seconds		
Average ramp-down rate(T_p to T_{smax}	6°C / Second Max.		
Time(25℃ to Peak Temperature)	8 Minutes Max.		

Mechanical Dimensions(Unit:mm(inch))



Ordering Information



Packaging

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