0603 Time Delay SMD Fuses

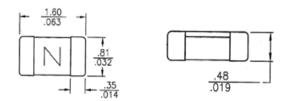












Description

06T 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 Compatible with reflow and wave solder Excellent environmental integrity One time positive disconnect Lead Free and Halogen free material

Applications

Power supplies Battery Chargers
Consumer Electronicsii Industrial Controllers

Electrical Characteristics for Series

% of Ampere Rating	Opening Time	
100%	4 Hour, Min	
200%	1~ 60Sec.,Max	
250%	5Sec. Max.	

Agency Approvals.

Safety	Agency File	Ampere Range
Agency	Number	Volt@I.R.ABILITY
c SU °us	E485357	250mA-8A 32Vdc @50A

Electrical Characteristic Specifications by Item

Part No	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A)	Typical Cold. Resistance (mOhms) 2	Typical Voltage Drop (mV)	Typical Pre- Arcing I2t (A2Sec) 3	Alpha Mark
06T1100		1	50A	300	345	0.011	В
06T1150		1.5	50A	150	270	0.045	Н
06T1200	_	2	50A	72	160	0.115	K
06T1250		2.5	50A	52	145	0.14	L
06T1300		3	50A	35	130	0.21	0
06T1350	32V	3.5	50A	23.8	130	0.5	R
06T1400		4	50A	21	120	0.56	S
06T1500		5	50A	14	110	1.2	Т
06T1600		6	50A	8.5	110	1.7	V**
06T1700		7	50A	7.3	80	2.3	X**
06T1800		8	50A	5.1	75	3.0	Z**

^{*} DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

Choice fuse for surge application (USB charger etc.), make sure the 1²t of fuse is 4 times than surge.

^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

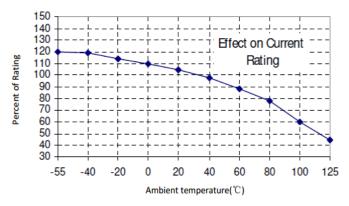
^{*} Typical Pre-arching I²t are measured at 10In Current

^{**}Different with other ratings, the color of glass cover of 6A, 7A and 8A is BLUE color

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Temperature Re-rating Curve

* Normal ambient temperature: $23\pm3^{\circ}$ C Operating temperature: -55 ~+125 $^{\circ}$ C, with proper correction factor applied



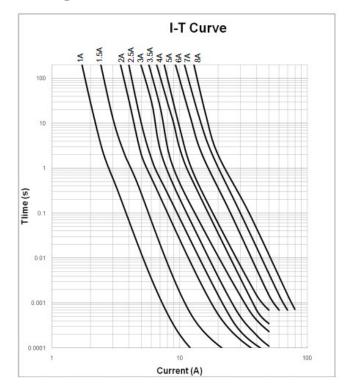








Average Time Current Curves



Soldering Method

■ Wave solder

Reservoir temperature:260°C

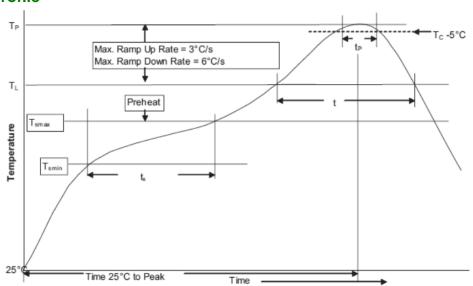
Time in reservoir:10 seconds maximum

■Infrared reflow

Temperature:260°C

Time: 30 seconds maximum

Solder Reflow Profile



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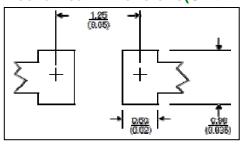




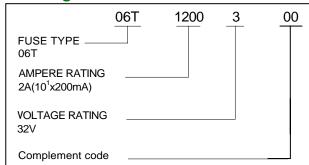


Profile Feature		Lead(Pb)free solder	
	Temperature min.(T _{smin})	150℃	
Preheat and soak	Temperature max.(T _{smax})	200 ℃	
	Time(T _{smin} to T _{smax})(ts)	60 - 120 Seconds	
Average ramp up rate T _{smax} to T _p		3℃ / Second Max.	
Liquidous temperature(T _L)		217℃	
Time at liquidous(t _L)		60 – 150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

Mechanical Dimensions(Unit:mm)



Ordering Information



Packaging

Packaging Option	Packaging	Quantity
06T	Tape- and- reel	5000