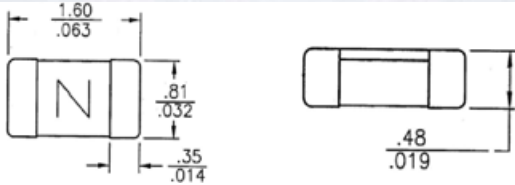


Type 06T

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

Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	E485357	250mA~8A 50A@32Vdc

Electrical Characteristics for Series

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

Electrical Characteristic Specifications by Item

Part No	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A) 1	Typical Cold Resistance (mOhms) 2	Typical Voltage Drop (mV)	Typical Pre-arcing I ² t (A ² Sec) 3	Alpha Mark
06T1100	32V	1	50A	300	345	0.011	B
06T1150		1.5	50A	150	270	0.045	H
06T1200		2	50A	72	160	0.115	K
06T1250		2.5	50A	52	145	0.14	L
06T1300		3	50A	35	130	0.21	O
06T1350		3.5	50A	23.8	130	0.5	R
06T1400		4	50A	21	120	0.56	S
06T1500		5	50A	14	110	1.2	T
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)

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

* Typical Pre-arcing 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.

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

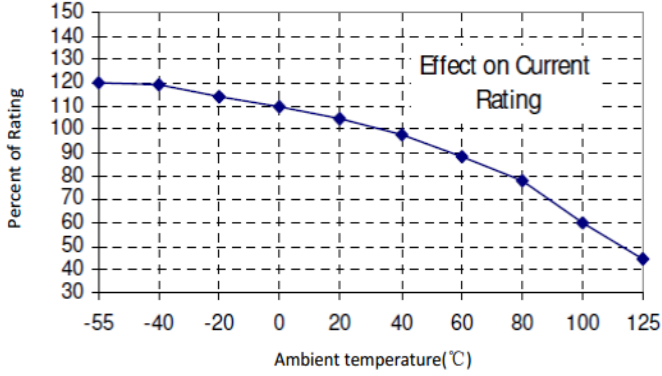
Type 06T

0603 Time Delay SMD Fuses

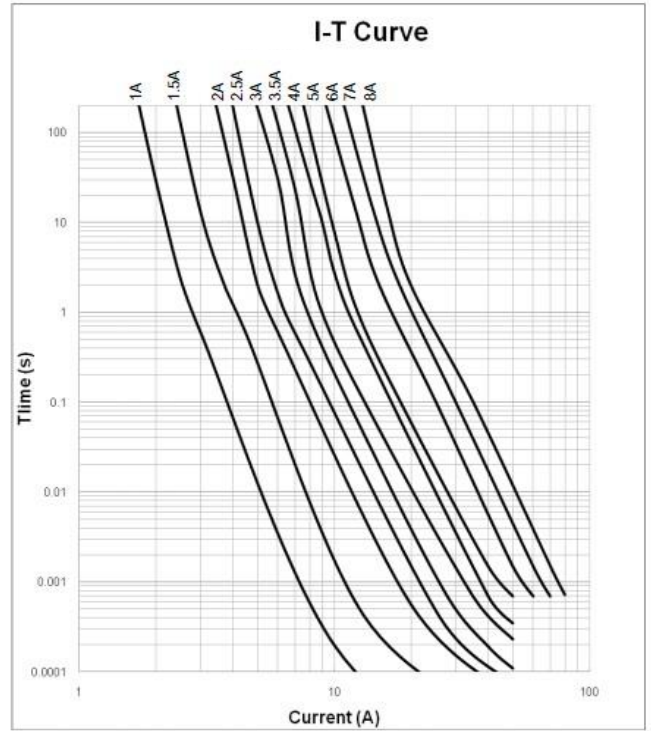


Temperature Re-rating Curve

* Normal ambient temperature: $23 \pm 3^\circ\text{C}$
Operating temperature: $-55 \sim +125^\circ\text{C}$, with proper correction factor applied



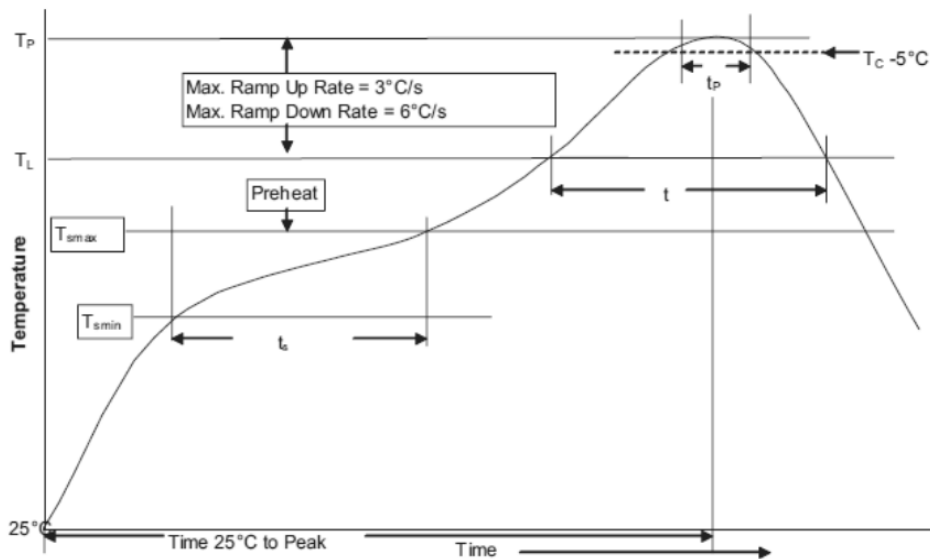
Average Time Current Curves



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



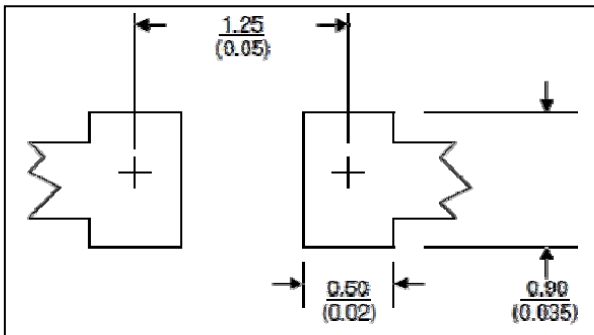
Type 06T

0603 Time Delay SMD Fuses



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

Mechanical Dimensions(Unit:mm)



Ordering Information

	06T	1200	3	00
FUSE TYPE	06T			
AMPERE RATING		2A(10 ¹ x200mA)		
VOLTAGE RATING			32V	
Complement code				

Packaging

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