## WT0603-F Series Fast Acting SMD Fuses



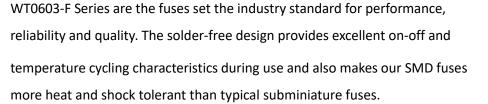
### Description











Electrical Characteristics					
Rated Current	1.0ln	2.0ln			
250mA~8A	4 hour minimum	60 sec maximum			





#### **Features**

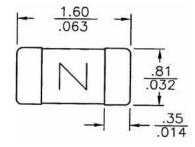
- ➤ High inrush current withstanding capability
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

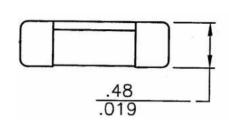
## **Specifications**

Specification								
Part No.	Rated V	_	Rated Current (A)	Breaking Capacity <sup>1</sup>	Typical Cold. Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre- Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>3</sup>	Alpha Mark
WDS0603-0.25F			0.250	50A	3250	893	0.00042	D
WDS0603-0.375F			0.375	50A	1310	587	0.00093	E
WDS0603-0.50F	63V	0.500 0.750 1	50A	1070	582	0.0020	F	
WDS0603-0.75F			0.750	50A	470	427	0.0092	G
WDS0603-1.00F			1	50A	257.5	295	0.018	Н
WDS0603-1.50F			1.5	50A	137.5	220	0.065	K
WDS0603-2.00F			2	50A	72	160	0.115	N
WDS0603-2.50F		32V	2.5	50A	52	145	0.14	0
WDS0603-3.00F	]		3	50A	35	130	0.21	Р
WDS0603-3.50F			3.5	50A	23.8	130	0.55	R
WDS0603-4.00F	] -		4	50A	21	120	0.52	S
WDS0603-5.00F	1		5	50A	14	110	1.70	Т
WDS0603-6.00F			6	50A	8	110	2.30	V
WDS0603-7.00F	1		7	50A	5.6	80	2.8	Х
WDS0603-8.00F			8	50A	3.5	75	4.96	Z

<sup>\*</sup>DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds,battery source)

Dimension Drawing not to scale (Unit: mm/inch)





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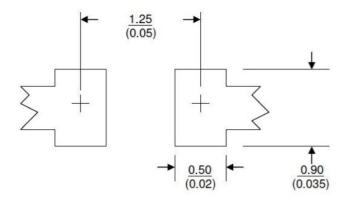
<sup>\*</sup> DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees

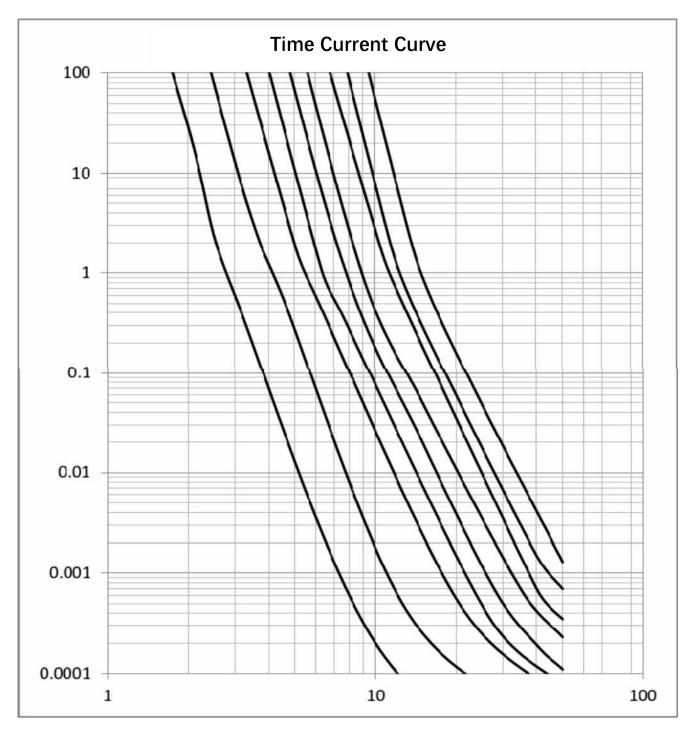
<sup>\*</sup> Typical Pre-arching I<sup>2</sup> t are measured at 10In Current

<sup>\*\*</sup> For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green.



## Recommended land pattern (Unit: mm/inch)





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Wave solder

■ Reservoir temperature: 260°C

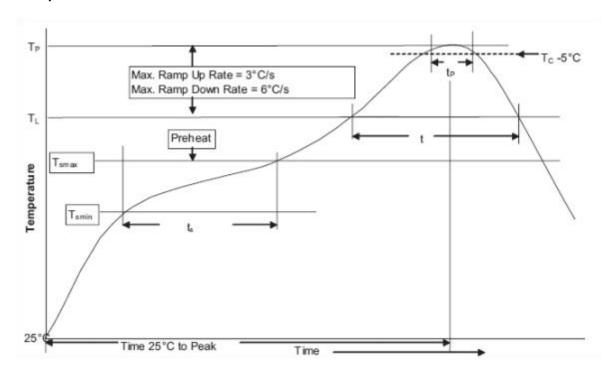
■ Time in reservoir: 10 seconds maximum

Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

## Solder reflow profile



Profile Feature			Lead(Pb) free solder	
Preheat and soak	•	Temperature min.(T <sub>smin</sub> )	150°C	
	•	Temperature max. (T <sub>smax</sub> )	200℃	
	•	Time (Tsmin to Tsmax) (ts)	60 - 120 Seconds	
Average ramp up rate T <sub>smax</sub> to T <sub>p</sub>			3°C / Second Max.	
Liquidous temperature (	217°C			
Time at liquidous (t∟)	60 - 150 Seconds			
Peak package body temperature (T <sub>P</sub> )			260°C	
Time (t <sub>P</sub> ) within 5°C of the specified classification temperature (Tc)			30 Seconds	
Average ramp-down rate (TP to Tsmax)			6℃ / Second Max.	
Time (25°C to Peak Tem	8 Minutes Max.			

## **Package**

5000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481.