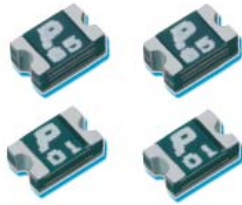


# SMD0603



## SMD Type, 6 V / 9 V / 15 V

### Standard

UL 1434 1<sup>st</sup> Edition  
 CSA C22.2 No. 0 CSA TIL No. CA-3A

### Approvals

TÜV pending  
 cURus pending

### Features

#### lead free

This product line is the smallest available SMD resettable fuse. These devices offer wide range in hold currents. The SMD0603 product line is suitable for high density circuit board applications in computers, handheld equipment and general electronics. Suitable for reflow soldering.

## Specifications

### Packaging

A Blister tape and reel Ø 178 mm

### Materials

Terminals: Solder-plated copper

**Max. Device Surface Temperature in Tripped State**  
 125 °C

**Operating / Storage Temperature**  
 -40 °C to +85 °C (consider derating)

### Humidity Ageing

+85 °C, 85 % R.H., 1000 hours, ± 5 % typical resistance change

### Vibration

MIL-STD-883C, Method 2007.1, Condition A, no change

### Thermal Shock

MIL-STD-202F, Method 107G  
 +85 °C to -40 °C 20 times, -30 % typical resistance change

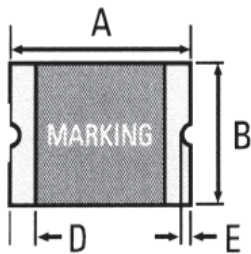
### Lead Solderability

Meets EIA Specification RS186-9E, ANSI/J-STD-002, Category 3 Reflow only

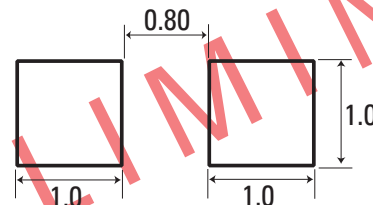
### Solvent Resistance

MIL-STD-202, Method 215, no change

Dimensions (mm)



Pad Layout (mm)



Dimensions (mm)

Model	A		B		C		D	E		packaging quantity tape
	Min	Max	Min	Max	Min	Max		Min	Max	
SMD0603P010TF	1.40	1.80	0.60	1.00	0.40	0.75	0.15	0.10	0.40	t.b.d.
SMD0603P020TF	1.40	1.80	0.60	1.00	0.40	0.75	0.15	0.10	0.40	
SMD0603P025TF	1.40	1.75	0.70	1.00	0.40	0.75	0.15	0.10	0.40	
SMD0603P035TF	1.40	1.75	0.70	1.00	0.75	1.55	0.15	0.10	0.40	
SMD0603P050TF	1.40	1.80	0.60	1.00	0.75	1.55	0.15	0.10	0.40	

Permissible continuous operating current is ≤ 100 % at ambient temperature of 20 °C (68 °F).

Model	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max. dc</sub> (V)	I <sub>max.</sub> (A)	max. time to trip (s @ A)	P <sub>d max.</sub> (W)	Resistance		Approvals
							R <sub>min.</sub> (Ω)	R <sub>I max.</sub> (Ω)	
SMD0603P010TF	0.10	0.30	15	40	1.00@0.50	0.5	0.900	6.000	p
SMD0603P020TF	0.20	0.50	9	40	0.60@1.00	0.5	0.550	3.500	p
SMD0603P025TF	0.25	0.55	9	40	0.08@8.00	0.5	0.500	3.000	p
SMD0603P035TF	0.35	0.70	6	40	0.10@8.00	0.5	0.200	1.000	p
SMD0603P050TF	0.50	1.00	6	40	1.00@8.00	0.5	0.100	0.680	p

NOTE:

I<sub>hold</sub> = Hold current: maximum current device will pass without tripping in 20°C still air.  
 I<sub>trip</sub> = Trip current: minimum current at which the device will trip in 20°C still air.  
 V<sub>max.</sub> = Maximum voltage device can withstand without damage at rated current (I<sub>max.</sub>)  
 I<sub>max.</sub> = Maximum fault current device can withstand without damage at rated voltage (V<sub>max.</sub>)

P<sub>d</sub> = Power dissipated from device when in the tripped state at 20 °C still air.  
 R<sub>min.</sub> = Minimum resistance of device in initial (un-soldered) state.  
 R<sub>I max.</sub> = Maximum resistance of device at 20 °C measured one hour after tripping for 20 s.

**Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice**

Order Information

Qty.	Order-Number	Model	Packaging