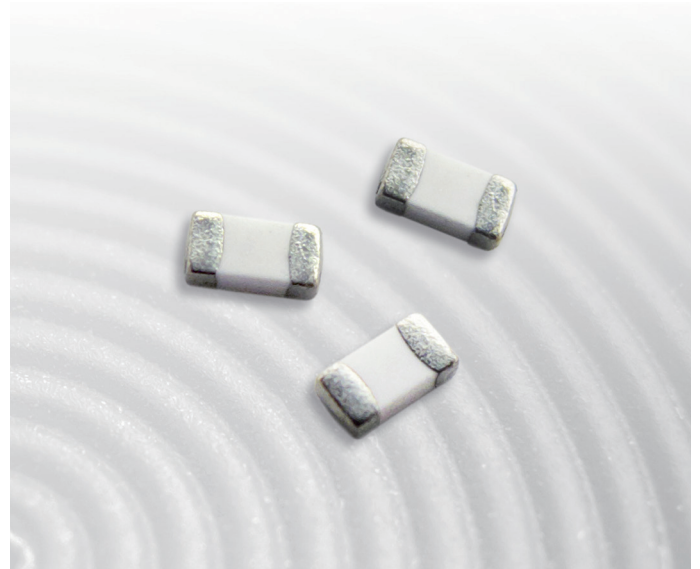


SURFACE-MOUNT FUSES

0603 Very Fast-Acting Chip Fuses

Very fast-acting chip fuses help provide overcurrent protection for systems using DC power sources up to 32V_{DC}. The fuse's monolithic, multilayer design helps provide the highest hold current in the smallest footprint, reduce diffusion-related aging, improve product reliability and resilience, and enhance high-temperature performance in a wide range of circuit designs.

These RoHS-compliant surface-mount devices offer strong arc suppression characteristics and facilitate the development of more reliable, high-performance consumer electronics such as laptops, multimedia devices, cell phones and other portable electronics.



BENEFITS

- Very fast acting at 200% and 300% overloads
- Inrush current withstand capability at high overloads
- Thin body for space-limited applications
- Glass ceramic monolithic structure
- Silver fusing element and silver termination with nickel and tin plating
- RoHS compliant and lead-free materials
- Symmetrical design with marking on both sides (optional)

FEATURES

- Lead-free materials and RoHS compliant
- Halogen free
(refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm)
- Monolithic, multilayer design
- High-temperature performance
- -55°C to +125°C operating temperature range

APPLICATIONS

- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

Surface Mount Fuses

0603 Very Fast-Acting Chip Fuses

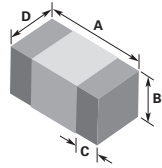
Table FV1 – Clear Time Characteristics

% of Rated Current	Clear Time at 25°C	
100%	4 hrs (min)	—
200%	0.01 s (min)	5 s (max)
300%	0.001 s (min)	0.2 s (max)

Table FV2 – Typical Electrical Characteristics and Dimensions

0603 (1608 mm) Very Fast-Acting Chip Fuses

Shape and Dimensions
mm (in)

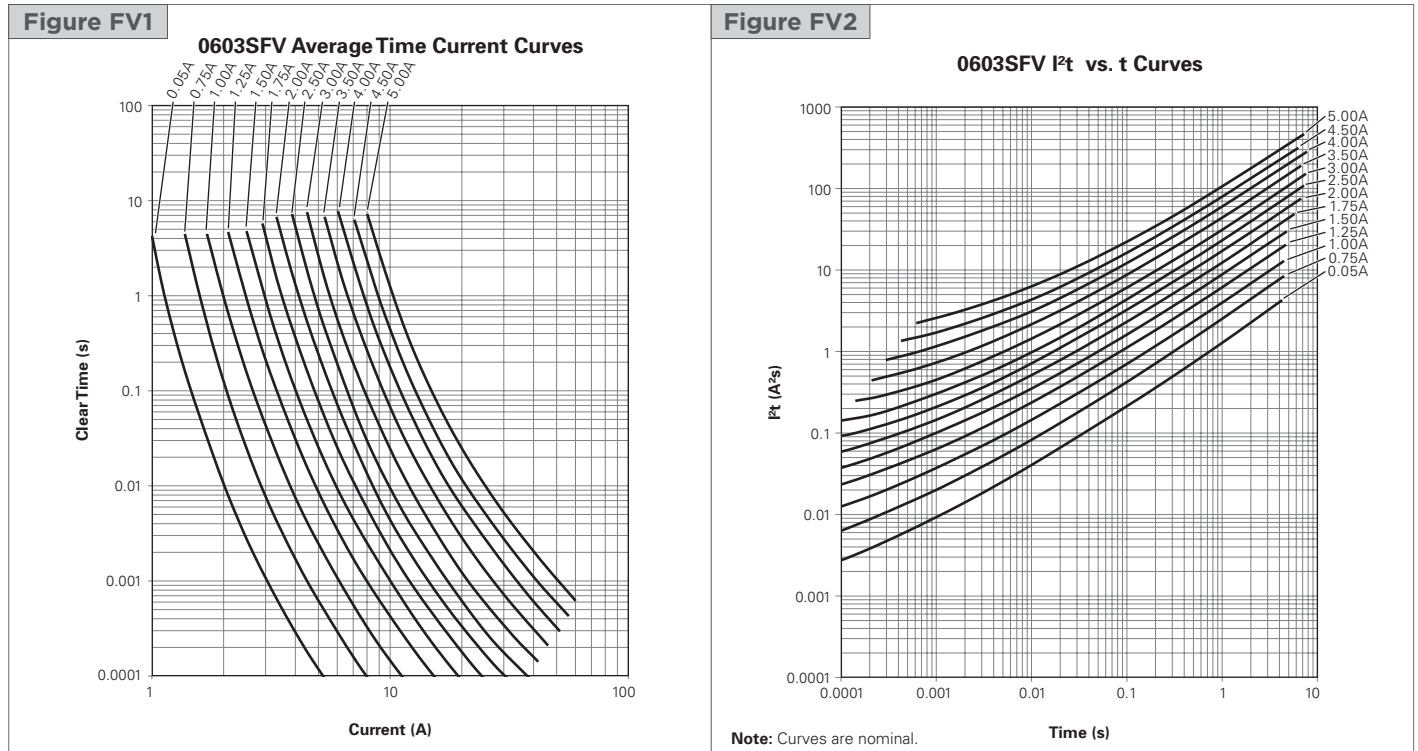


	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
mm	1.45	1.75	0.22	0.48	0.21	0.51	0.65	0.95
in	(0.057)	(0.069)	(0.009)	(0.019)	(0.008)	(0.020)	(0.025)	(0.037)

Part Number	Typical Electrical Characteristics			Max Interrupt Ratings	
	Rated Current (A)	Nominal Cold DCR (Ω)*	Nominal I ² t (A ² sec)	Voltage (V _{DC})	Current (A)
0603SFV050F/32-2	0.5	0.860	0.0093	32	50
0603SFV075F/32-2	0.8	0.450	0.0191	32	50
0603SFV100F/32-2	1.0	0.280	0.0360	32	50
0603SFV125F/32-2	1.3	0.205	0.0630	32	35
0603SFV150F/32-2	1.5	0.143	0.0950	32	35
0603SFV175F/32-2	1.8	0.095	0.1400	32	35
0603SFV200F/32-2	2.0	0.073	0.2100	32	35
0603SFV250F/32-2	2.5	0.046	0.3000	32	35
0603SFV300F/32-2	3.0	0.039	0.4600	32	35
0603SFV350F/32-2	3.5	0.028	0.7300	32	35
0603SFV400F/32-2	4.0	0.023	1.1500	32	35
0603SFV450F/32-2	4.5	0.019	1.6800	32	35
0603SFV500F/32-2	5.0	0.015	2.6200	32	35

* Measured at 10% of rated current and 25°C.

Figures FV1-FV2 – Family Performance Curves



Surface Mount Fuses

0603 Very Fast-Acting Chip Fuses

Notice:

Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.