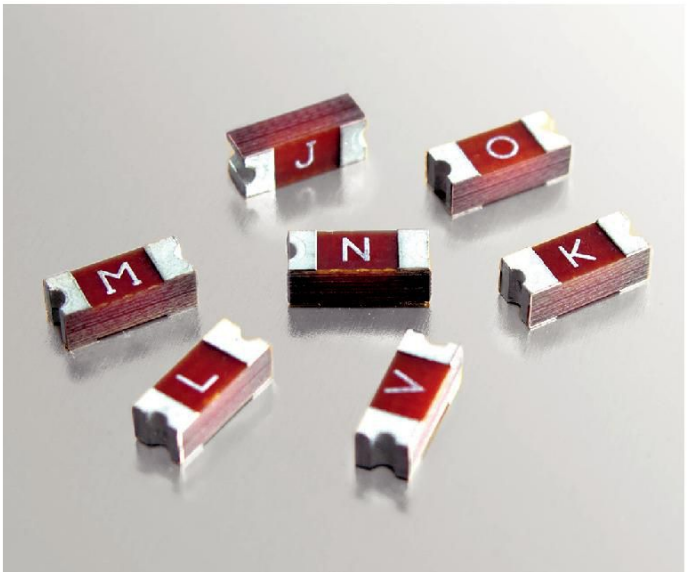
SURFACE-MOUNT FUSES

2410 Very Fast-Acting Chip Fuses

The 2410 (6125mm) Wire-in-Air (WIA) SMD Fuse is suitable for secondary-level overcurrent protection applications.

These lead-free surface-mount devices offer increased reliability and avoid the risk of end caps falling off. Their straight wire element in air performs consistent fusing and cutting characteristics.



BENEFITS

- Very fast acting at 200% overload current level
- Excellent inrush current withstand capability
- High reliability and resilience
- Strong arc suppression characteristics
- Copper terminal with nickel and tin plating

FEATURES

- Halogen free, RoHS compliant and 100% lead free
- Copper or copper alloy composite fuse link
- Fiberglass enforced epoxy fuse body
- Wide range of current rating
- -55°C to +125°C operating temperature range (With de-rating)

APPLICATIONS

- Industrial equipment
- LCD/PDP TV
- Backlight inverter
- Power supplier
- Telecom system
- Networking
- Game systems
- White goods
- Automotive

Surface Mount Fuses
2410 Very Fast-Acting Chip Fuses

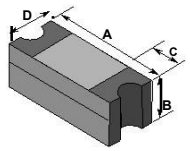
Table SFV1 — Clear Time Characteristics

% of Rated Current	Clear Time at 25°C	
100%	4 hrs (min)	—
200% (0.5A-10.0A)	0.01 s (min)	5 s (max)
200% (12.0A-20.0A)	0.01 s (min)	20 s (max)

Table SFV2 — Typical Electrical Characteristics, Dimensions and Recommended Pad Layout

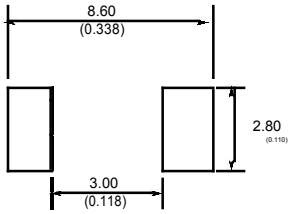
2410 (6125 mm) Very Fast-Acting Fuse

Shape and Dimensions
mm (in)



	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
mm	5.95	6.25	1.96	2.36	0.97	1.73	2.34	2.64
in	(0.234)	(0.246)	(0.077)	(0.093)	(0.038)	(0.068)	(0.092)	(0.104)

Recommended Pad Layout
mm (Inch)



Part Number	Marking Code	Rated Current (A)	Interrupt Rating	Voltage Rating (V) AC	Voltage Rating (V) DC	Nominal Cold DC Resistance (DCR) (Ω)*	Nominal I^2t (A^2s)
2410SFV0.50FM/125	C	0.5		250	125	0.231	0.1
2410SFV0.63FM/125	S	0.63		250	125	0.174	0.16
2410SFV0.75FM/125	D	0.75		250	125	0.148	0.23
2410SFV1.00FM/125	E	1		250	125	0.093	0.59
2410SFV1.25FM/125	F	1.25		250	125	0.07	0.96
2410SFV1.50FM/125	G	1.5		250	125	0.062	1.19
2410SFV2.00FM/125	I	2		250	125	0.042	2.75
2410SFV2.50FM/125	J	2.5		125	125	0.031	1.21
2410SFV3.00FM/125	K	3		125	125	0.0249	1.73
2410SFV3.15FM/125	V	3.15		125	125	0.0232	2.2
2410SFV3.50FM/125	L	3.5		125	125	0.022	2.5
2410SFV4.00FM/125	M	4		125	125	0.0172	4.1
2410SFV5.00FM/125	N	5		125	125	0.0143	5.9
2410SFV6.30FM/125	O	6.3		125	125	0.01	12.5
2410SFV7.00FM/125	P	7		125	125	0.0094	14.2
2410SFV8.00FM/125	R	8		125	125	0.0086	20.3
2410SFV10.0FM/125	Q	10	**UL:** 35A @ 125V_{AC}, 50A @ 125V_{DC}, 300A @ 32V_{DC}	125	125	0.0066	29.2
2410SFV12.0FM/065	X	12	**UL:** 50A @ 65V_{AC}, 50A @ 65V_{DC}, 300A @ 32V_{DC}	65	65	0.0053	49.2
2410SFV15.0FM/065	Y	15		65	65	0.0038	102.5
2410SFV20.0FM/065	Z	20	**UL:** 50A @ 65V_{AC}, 100A @ 65V_{DC}, 300A @ 32V_{DC}	65	65	0.0034	126.2

UL:
0.5~2A
100A @ 250V_{AC}
2.5~8A
50A @ 125V_{AC}
0.5~8A
50A @ 125V_{DC}
300A @ 32V_{DC}

TUV:
0.5A, 0.63A, 1A, 1.25A, 2A
100A @ 250V_{AC}
50A @ 125V_{DC}

CQC:
0.5A, 1A, 2A
100A @ 250V_{AC}
50A @ 125V_{DC}

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

Figures SFV1-SFV2 — Family Performance Curves

Figure SFV1

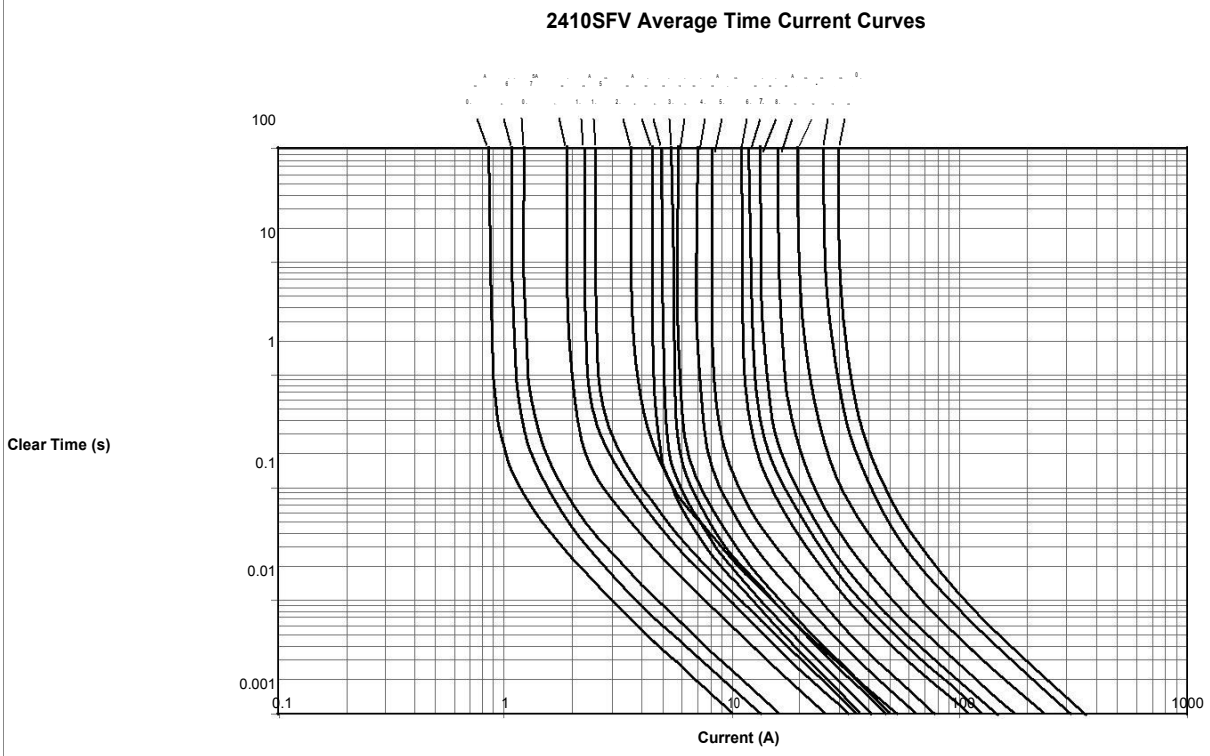
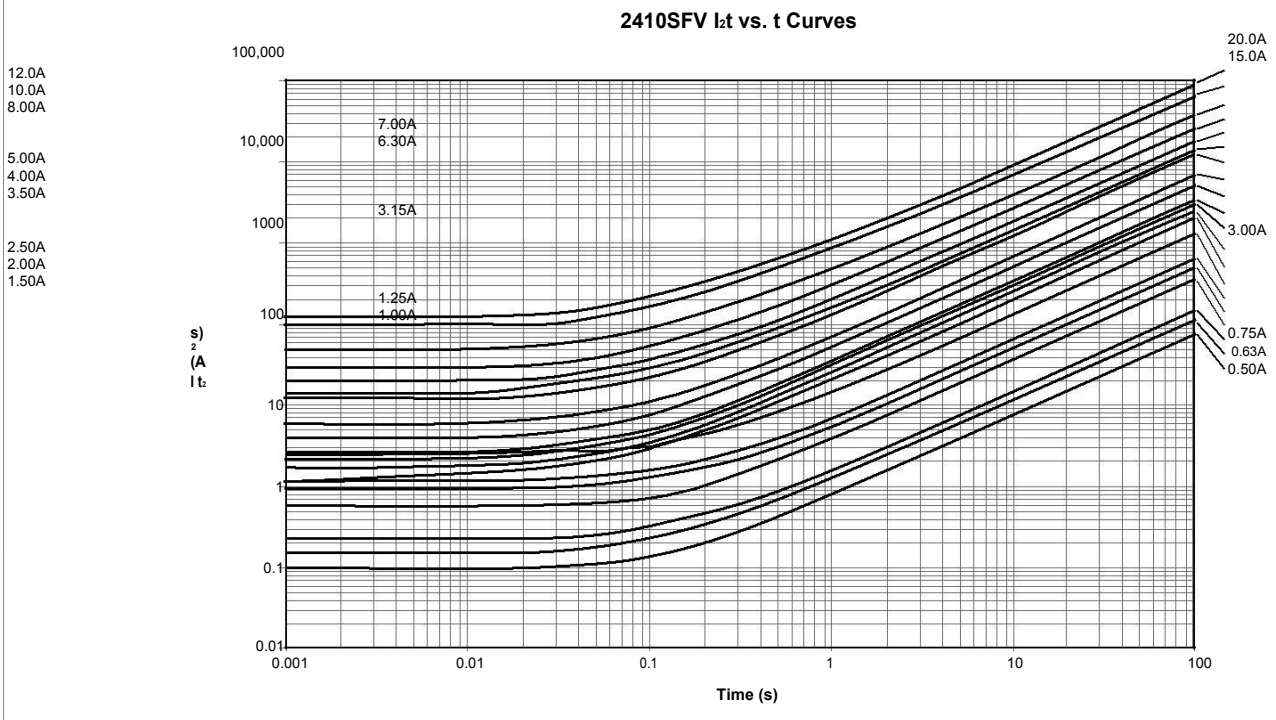


Figure SFV2



Note: Curves are nominal.