

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

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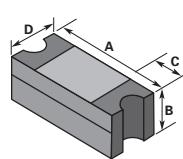
Table SFV1 — ClearTime Characteristics

| % 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

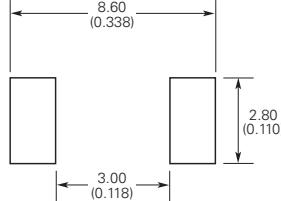
2410 (6125 mm) Very Fast-Acting Fuse

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) | | Nominal Cold DC Resistance (DCR) (Ω)* | Nominal I^2t (A ² s) |
|-------------------|--------------|-------------------|--|--------------------|--------|---------------------------------------|-----------------------------------|
| | | | | AC | DC | | |
| 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 |
| UL: | | | | | | | |
| 2410SFV10.0FM/125 | Q | 10 | 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 |

* Measured at $\leq 10\%$ of rated current and 25°C ambient

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Figures SFV1-SFV2 – Family Performance Curves

Figure SFV1

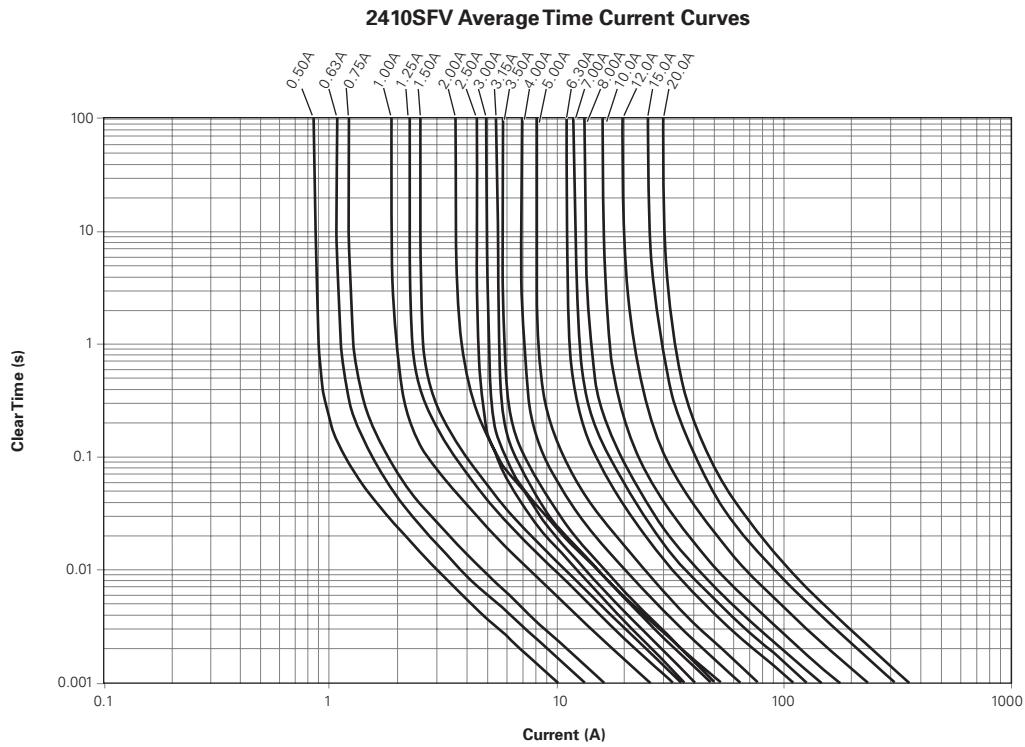
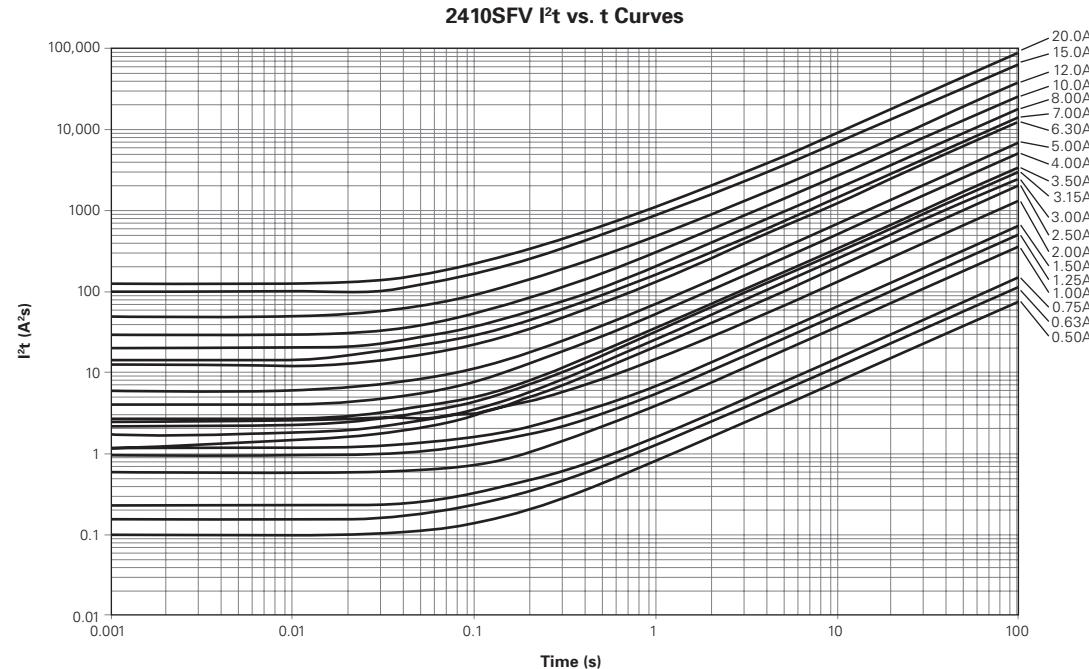


Figure SFV2



Note: Curves are nominal.

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