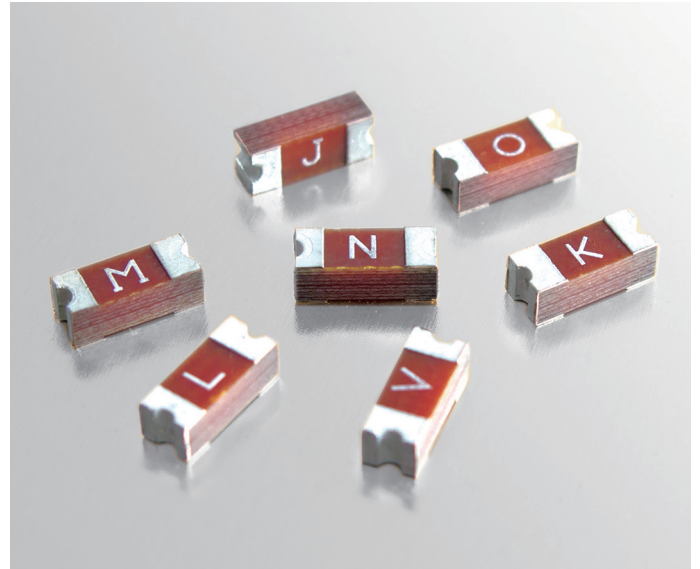


# SURFACE-MOUNT FUSES

## 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

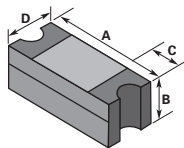
Table SFV1 — ClearTime Characteristics

| % of Rated Current | ClearTime 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

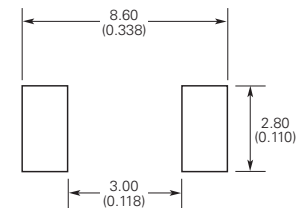
### 2410 (6125 mm) Very Fast-Acting Fuse

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)

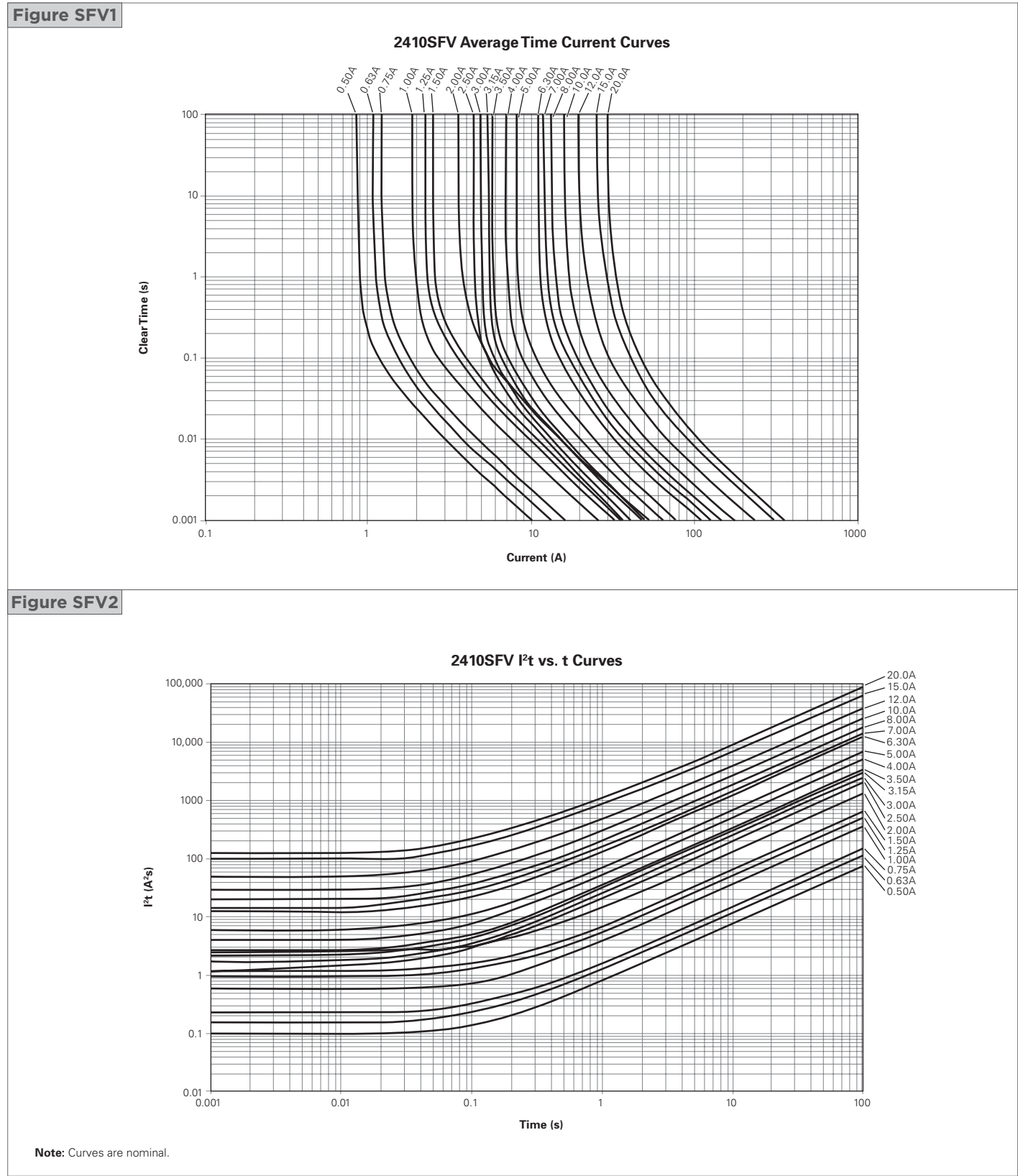


| Part Number       | Marking Code | Rated Current (A) | Interrupt Rating                                                                                                                                                                                                                                                                                                                                                                                   | Voltage Rating (V) |     | Nominal Cold DC Resistance (DCR) (Ω)* | Nominal I <sup>2</sup> t (A <sup>2</sup> s) |
|-------------------|--------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|---------------------------------------|---------------------------------------------|
|                   |              |                   |                                                                                                                                                                                                                                                                                                                                                                                                    | AC                 | DC  |                                       |                                             |
| 2410SFV0.50FM/125 | C            | 0.5               | <b>UL:</b><br><b>0.5~2A</b><br>100A @ 250V <sub>AC</sub><br><b>2.5~8A</b><br>50A @ 125V <sub>AC</sub><br><b>0.5~8A</b><br>50A @ 125V <sub>DC</sub><br>300A @ 32V <sub>DC</sub><br><br><b>TUV:</b><br><b>0.5A, 0.63A, 1A, 1.25A, 2A</b><br>100A @ 250V <sub>AC</sub><br>50A @ 125V <sub>DC</sub><br><br><b>CQC:</b><br><b>0.5A, 1A, 2A</b><br>100A @ 250V <sub>AC</sub><br>50A @ 125V <sub>DC</sub> | 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                 | <b>UL:</b><br>35A @ 125V <sub>AC</sub><br>50A @ 125V <sub>DC</sub><br>300A @ 32V <sub>DC</sub>                                                                                                                                                                                                                                                                                                     | 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                |                                                                                                                                                                                                                                                                                                                                                                                                    | 125                | 125 | 0.0066                                | 29.2                                        |
| 2410SFV12.0FM/065 | X            | 12                |                                                                                                                                                                                                                                                                                                                                                                                                    | 65                 | 65  | 0.0053                                | 49.2                                        |
| 2410SFV15.0FM/065 | Y            | 15                |                                                                                                                                                                                                                                                                                                                                                                                                    | 65                 | 65  | 0.0038                                | 102.5                                       |
| 2410SFV20.0FM/065 | Z            | 20                |                                                                                                                                                                                                                                                                                                                                                                                                    | 65                 | 65  | 0.0034                                | 126.2                                       |
| 2410SFV20.0FM/065 | Z            | 20                |                                                                                                                                                                                                                                                                                                                                                                                                    | 65                 | 65  | 0.0034                                | 126.2                                       |

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

Surface Mount Fuses  
2410 Very Fast-Acting Chip Fuses

Figures SFV1-SFV2 — Family Performance Curves



## Surface Mount Fuses

### 2410 Very Fast-Acting Chip Fuses

#### **Notice:**

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