## 6l25TD

## Time-delay surface mount fuse



## Product features

- Time-delay surface mount fuse
- Satisfies the EIA/IS-722 Standard
- Solder immersion compatible


## Agency information

- UL Recognition Guide \& File numbers: JDYX2 \& E19180.
- CSA Component Acceptance: 053787 C 000 \& Class No: 142230


## Soldering method

- Wave immersion: $260^{\circ} \mathrm{C}, 10 \mathrm{Sec}$. max.
- Infrared reflow: $260^{\circ} \mathrm{C}, 30 \mathrm{Sec}$. max.


## Environmental data

- Life test: MIL-STD-202, Method 108A, Test Condition D
- Load humidity: MIL-STD-202, Method 103B
- Moisture resistance: MIL-STD-202, Method 106E
- Terminal strength: MIL-STD-202, Method 211A
- Thermal shock: MIL-STD-202, Method 107D, air-to-air
- Case resistance: EIA/IS-722
- Resistance to dissolution of metallization: ANSI J-STD-002, Test D
- Mechanical shock: MIL-STD-202, Method 213B with exceptions per EIA/IS-722 Standard
- High frequency vibration: MIL-STD-202, Method 204D, Test Condition D
- Resistance to solvents: MIL-STD-202, Method 215A


## Ordering

- Specify packaging and product code (i.e., TR1/6125TD500-R

| ELECTRICAL CHARACTERISTICS |  |
| :---: | :---: |
| $\%$ of Amp Rating | Opening Time |
| $100 \%$ | 4 Hours Minimum |
| $200 \%$ | 1 Second Minimum |
| $200 \%$ | $2-4$ Seconds Typical |
| $200 \%$ | 60 Seconds Maximum |


| SPECIFICATIONS |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Product Code | Current Rating | Voltage Rating |  | Interrupting Rating* |  | $\begin{gathered} \hline \text { Resistance } \\ (\text { ohms)** } \end{gathered}$ | Typical Melting | Typical Voltage |
|  |  | AC | DC | 125VAC | 60VDC | Typ. | $1^{2}+\dagger$ | Drop $\ddagger$ |
| 6125TD500-R | 500 mA | 125 V | 60 V | 50A | 50A | 0.4025 | 0.716 | 245 mV |
| 6125TD750-R | 750 mA | 125 V | 60 V | 50A | 50A | 0.2350 | 1.07 | 250 mV |
| 6125TD1-R | 1A | 125 V | 60 V | 50A | 50A | 0.1680 | 2.88 | 256 mV |
| 6125TD1.5-R | 1.5A | 125 V | 60 V | 50A | 50A | 0.0630 | 2.35 | 125 mV |
| 6125TD2-R | 2A | 125 V | 60 V | 50A | 50A | 0.0480 | 9.45 | 133 mV |
| 6125TD2.5-R | 2.5A | 125 V | 60 V | 50A | 50A | 0.0350 | 16.2 | 130 mV |
| 6125TD3-R | 3A | 125 V | 60 V | 50A | 50A | 0.0263 | 15.3 | 97 mV |
| 6125TD3.5-R | 3.5A | 125 V | 60 V | 50A | 50A | 0.0195 | 14.5 | 95 mV |
| 6125TD4-R | 4A | 125 V | 60 V | 50A | 50A | 0.0185 | 38.8 | 106 mV |
| 6125TD5-R | 5A | 125 V | 60 V | 50A | 50A | 0.0133 | 34.4 | 100 mV |
| 6125TD7-R | 7A | 125 V | 60 V | 50A | 50A | 0.0087 | 90.2 | 99 mV |

* AC Interrupting Rating (Measured at designated voltage, 100\% power factor); DC Interrupting Rating (Measured at designated voltage, time constant of less than 50 microseconds, battery source)
** DC Cold Resistance (Measured at 10\% of rated current)
$\dagger$ Typical Melting I ${ }^{2} t$ (Measured with a battery bank at rated DC voltage, 10x-rated current (not to exceed IR), time constant of calibrated circuit less than 50 microseconds)
$\neq$ Typical Voltage Drop (Measured at rated current after temperature stabilizes)
Device designed to carry rated current for four hours minimum. An operating current of $80 \%$ or less of rated current is recommended, with further derating required at elevated ambient temperatures.


## EtT•N

Powering Business Worldwide


## TIME CURRENT CURVE



## PACKAGING CODE

| Packaging Code | Description |
| :---: | :--- |
| TR1 | 1000 pieces of fuses on 12mm tape-and-reel on a 7 inch (177mm) reel per EIA Standard 481 |

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