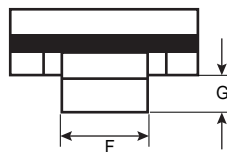
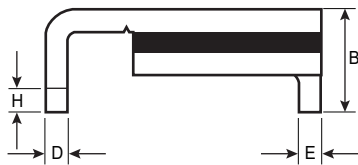


### Terminal Pad Solderability

Meets ANSI/J-STD-002, Category 1.

### Terminal Pad Materials

100% Matte Tin with Nickel Underplate



### Marking

Part Identification  
 ASMD2920T125 = J125

**TABLE I. DIMENSIONS**

| Model        | A    |      | B    | C    |      | D    |      | E    |      | F    |      | G    |      | H    |
|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              | Min. | Max. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| ASMD2920T125 | 6.73 | 7.98 | 3.00 | 4.8  | 5.44 | 0.56 | 0.71 | 0.56 | 0.71 | 2.16 | 2.41 | 0.66 | 1.37 | 0.43 |

Unit: mm

**TABLE II. PERFORMANCE RATINGS**

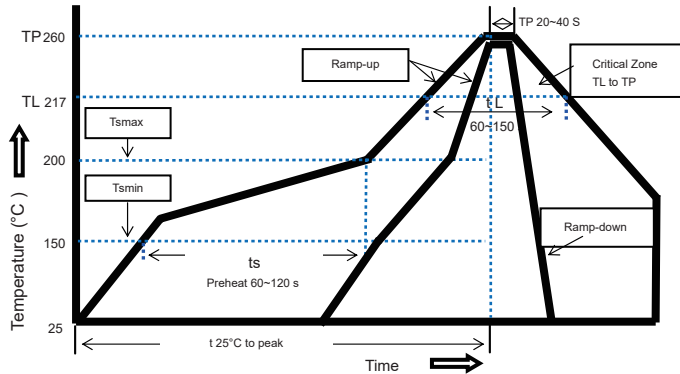
| Model        | $V_{max}$<br>(V dc) | $I_{max}$<br>(A) | $I_{hold}$<br>@25°C<br>(A) | $I_{trip}$<br>@25°C<br>(A) | $P_d$<br>Typ.<br>(W) | Maximum<br>Time To Trip |               | Resistance                 |                            |
|--------------|---------------------|------------------|----------------------------|----------------------------|----------------------|-------------------------|---------------|----------------------------|----------------------------|
|              |                     |                  |                            |                            |                      | Current<br>(A)          | Time<br>(Sec) | $R_{imin}$<br>( $\Omega$ ) | $R_{1max}$<br>( $\Omega$ ) |
| ASMD2920T125 | 30                  | 40               | 1.25                       | 2.50                       | 1.5                  | 8.0                     | 2.0           | 0.04                       | 0.25                       |

Recognition:UL pending

**Thermal Derating Chart**

| Model        | Maximum ambient operating temperature ( $T_{mao}$ ) vs. hold current ( $I_{hold}$ ) |        |      |      |      |      |      |      |      |  |
|--------------|-------------------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|--|
|              | - 40°C                                                                              | - 20°C | 0°C  | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |  |
| ASMD2920T125 | 2.02                                                                                | 1.78   | 1.55 | 1.25 | 1.08 | 0.96 | 0.84 | 0.72 | 0.54 |  |

## Soldering Parameters



| Profile Feature                                | Pb-Free Assembly  |
|------------------------------------------------|-------------------|
| Average Ramp-Up Rate<br>(Ts max to T p)        | 3 °C/second max.  |
| Preheat                                        |                   |
| -Temperature Min(Ts min)                       | 150 °C            |
| -Temperature Max(Ts max)                       | 200 °C            |
| -Time(Ts min to Ts max)                        | 60~120 seconds    |
| Time maintained above:                         |                   |
| -Temperature(TL)                               | 217 °C            |
| -Time(tL)                                      | 60~150 seconds    |
| Peak/Classification Temperature(Tp)            | 260 °C            |
| Time within 5 °C of actual<br>peak temperature | 30 seconds max.   |
| Time (TP)                                      |                   |
| Ramp down rate                                 | 3 °C/seconds max. |
| Time 25 °C to peak temperature                 | 8 minutes max.    |
| Operating Temperature                          | -40 °C~+85 °C     |

- Recommended reflow methods: IR, vapor phase oven, hot air oven, N2 environment for lead-free.
- Devices are not designed to be wave soldered to the bottom side of the board.
- Recommended maximum paste thickness is 0.25mm (0.010inch).
- Devices can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperature exceed the recommended profile, devices may not meet the performance requirements.

## Packaging Quantity

| Model        | Quantity       |
|--------------|----------------|
| ASMD2920T125 | 2,000 pcs/reel |