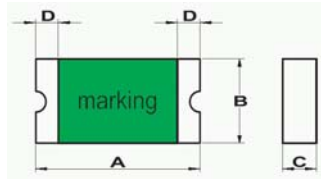


## Construction and Dimension:



Unit:mm

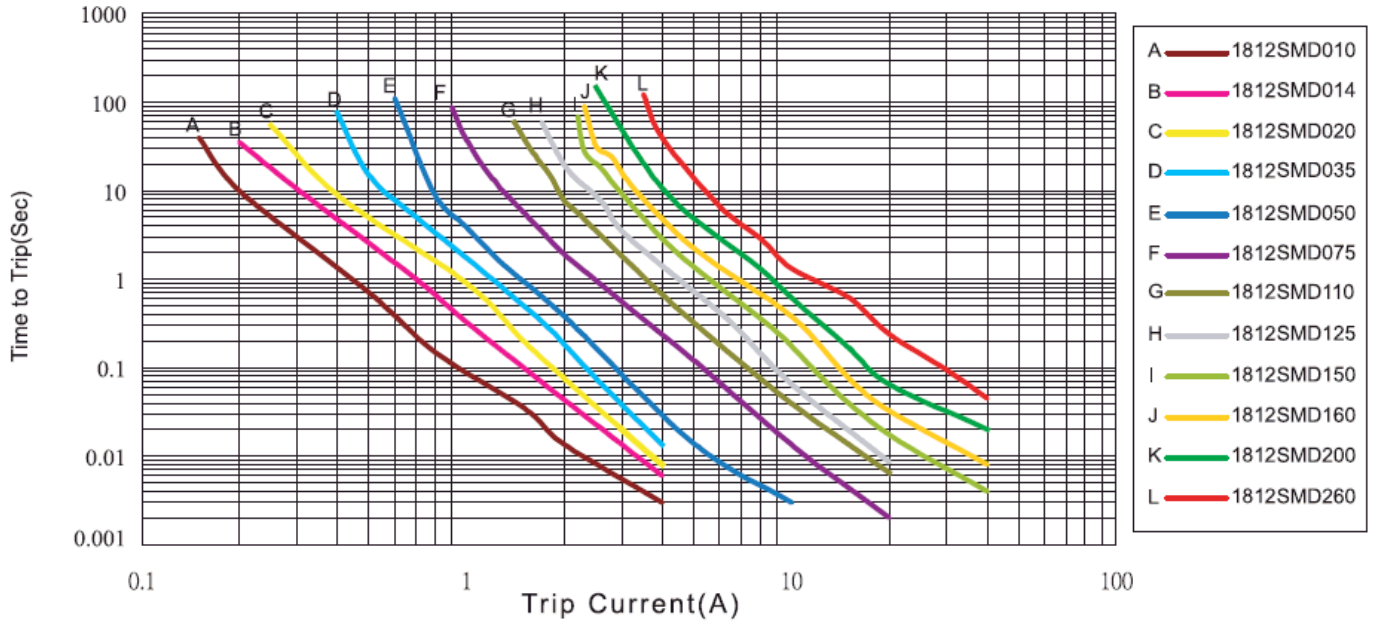
| Model         | A    |      | B    |      | C    |      | D    |
|---------------|------|------|------|------|------|------|------|
|               | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1812SMD010    | 4.37 | 4.73 | 3.07 | 3.41 | 0.70 | 1.10 | 0.30 |
| 1812SMD014    | 4.37 | 4.73 | 3.07 | 3.41 | 0.70 | 1.10 | 0.30 |
| 1812SMD020    | 4.37 | 4.73 | 3.07 | 3.41 | 0.70 | 1.10 | 0.30 |
| 1812SMD035    | 4.37 | 4.73 | 3.07 | 3.41 | 0.70 | 1.10 | 0.30 |
| 1812SMD050    | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD075    | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD075/24 | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD110    | 4.37 | 4.73 | 3.07 | 3.41 | 0.45 | 0.75 | 0.30 |
| 1812SMD110/16 | 4.37 | 4.73 | 3.07 | 3.41 | 0.45 | 0.75 | 0.30 |
| 1812SMD125    | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD150    | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD160    | 4.37 | 4.73 | 3.07 | 3.41 | 0.55 | 0.85 | 0.30 |
| 1812SMD200    | 4.37 | 4.73 | 3.07 | 3.41 | 0.45 | 0.85 | 0.30 |
| 1812SMD260    | 4.37 | 4.73 | 3.07 | 3.41 | 0.48 | 0.85 | 0.30 |

## Electrical Characteristics at 23<sup>0</sup>C

| Model         | V max<br>(Volts) | I max<br>(Amps) | I hold<br>(Amps) | I trip<br>(Amps) | R min<br>(Ω) | R1 max<br>(Ω) | Max Time to Trip |      | P (d)<br>(Watts) |
|---------------|------------------|-----------------|------------------|------------------|--------------|---------------|------------------|------|------------------|
|               |                  |                 |                  |                  |              |               | Amps             | Sec. |                  |
| 1812SMD010    | 60.0             | 40              | 0.10             | 0.30             | 0.700        | 15.00         | 0.5              | 1.50 | 0.8              |
| 1812SMD014    | 60.0             | 40              | 0.14             | 0.34             | 0.400        | 6.50          | 1.5              | 0.15 | 0.8              |
| 1812SMD020    | 30.0             | 80              | 0.20             | 0.40             | 0.400        | 6.00          | 6.0              | 0.06 | 0.8              |
| 1812SMD035    | 30.0             | 10              | 0.35             | 0.75             | 0.300        | 3.00          | 8.0              | 0.10 | 0.8              |
| 1812SMD050    | 15.0             | 100             | 0.50             | 1.00             | 0.150        | 1.00          | 8.0              | 0.15 | 0.8              |
| 1812SMD075    | 13.2             | 100             | 0.75             | 1.50             | 0.110        | 0.45          | 8.0              | 0.20 | 0.8              |
| 1812SMD075/24 | 24.0             | 40              | 0.75             | 1.50             | 0.110        | 0.45          | 8.0              | 0.20 | 0.8              |
| 1812SMD110    | 6.0              | 100             | 1.10             | 2.20             | 0.040        | 0.21          | 8.0              | 0.30 | 0.8              |
| 1812SMD110/16 | 16.0             | 100             | 1.10             | 2.20             | 0.040        | 0.21          | 8.0              | 0.30 | 0.8              |
| 1812SMD125    | 6.0              | 100             | 1.25             | 2.50             | 0.035        | 0.14          | 8.0              | 0.40 | 0.8              |
| 1812SMD150    | 6.0              | 100             | 1.50             | 3.00             | 0.030        | 0.12          | 8.0              | 0.50 | 0.8              |
| 1812SMD160    | 8.0              | 100             | 1.60             | 2.80             | 0.035        | 0.099         | 8.0              | 2.00 | 0.8              |
| 1812SMD200    | 8.0              | 40              | 2.00             | 4.00             | 0.020        | 0.08          | 8.0              | 3.00 | 0.8              |
| 1812SMD260    | 6.0              | 100             | 2.60             | 5.20             | 0.015        | 0.08          | 8.0              | 5.00 | 0.8              |

\*Definition of electrical characteristics refer to page 6.

**Construction and Dimension:**



**Thermal Derating Chart  $I_{hold}$  (Amps)**

| TEMP(°C)      | - 40 | - 20 | 0    | 23   | 40   | 50   | 60   | 70   | 85   |
|---------------|------|------|------|------|------|------|------|------|------|
| 1812SMD010    | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.03 |
| 1812SMD014    | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 |
| 1812SMD020    | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 |
| 1812SMD035    | 0.50 | 0.45 | 0.40 | 0.35 | 0.29 | 0.26 | 0.24 | 0.21 | 0.19 |
| 1812SMD050    | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 |
| 1812SMD075    | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| 1812SMD075/24 | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 |
| 1812SMD110    | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| 1812SMD110/16 | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 |
| 1812SMD125    | 1.80 | 1.63 | 1.43 | 1.25 | 1.08 | 0.99 | 0.91 | 0.81 | 0.68 |
| 1812SMD150    | 2.17 | 1.95 | 1.72 | 1.50 | 1.30 | 1.18 | 1.09 | 0.97 | 0.82 |
| 1812SMD160    | 2.30 | 2.20 | 1.90 | 1.60 | 1.45 | 1.30 | 1.15 | 1.03 | 0.91 |
| 1812SMD200    | 3.08 | 2.71 | 2.35 | 2.00 | 1.80 | 1.60 | 1.50 | 1.40 | 1.25 |
| 1812SMD260    | 4.00 | 3.52 | 3.06 | 2.60 | 2.34 | 2.08 | 1.95 | 1.39 | 1.04 |