

# POLYMER PTC RESETTABLE FUSE

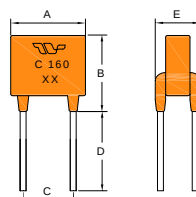


Part Number:TRC160

## 1、Physical Dimensions

Unit:mm

| Part Number | A    | B    | C   | D   | E   | Lead |
|-------------|------|------|-----|-----|-----|------|
|             | Max  | Max  | TYP | Min | Max | Φ    |
| TRC160      | 16.3 | 21.3 | 5.1 | 7.6 | 3.1 | 0.80 |



 — Logo  
C 160 — Holding Current  
XX — Max.Interrupt voltage  
XX — Lot No.

## 2、Electrical Characteristics

| Part Number | I <sub>H</sub><br>(A) | I <sub>T</sub><br>(A) | V <sub>max</sub><br>(V) | I <sub>max</sub><br>(A) | T <sub>trip</sub><br>(Max time to trip) |         | Pd <sub>typ</sub><br>(W) | R <sub>min</sub><br>(Ω) | R <sub>max</sub><br>(Ω) | R1 <sub>max</sub><br>(Ω) |
|-------------|-----------------------|-----------------------|-------------------------|-------------------------|-----------------------------------------|---------|--------------------------|-------------------------|-------------------------|--------------------------|
|             |                       |                       |                         |                         | Current(A)                              | Time(S) |                          |                         |                         |                          |
| TRC160      | 1.60                  | 3.20                  | 60                      | 40                      | 8.00                                    | 11.4    | 1.90                     | 0.09                    | 0.14                    | 0.24                     |

I<sub>H</sub>: Holding Current: maximum current at which the device will not trip in 25°C still air.

I<sub>T</sub>: Tripping Current: minimum current at which the device will trip in 25°C still air.

V<sub>max</sub>: Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>: Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>: Maximum time to trip(s) at assigned current.

Pd<sub>typ</sub>: Rated working power.

R<sub>min</sub>: Minimum resistance of device prior to trip at 25°C.

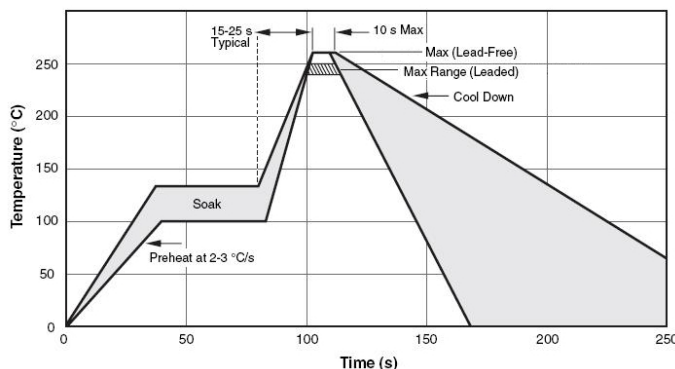
R<sub>max</sub>: Maximum resistance of device prior to trip at 25°C.

R1<sub>max</sub>: Maximum resistance of device is measured one hours post reflow at 25°C.

## 3、Thermal Derating

| Part Number | Ambient Operating Temperature |       |      |      |      |      |      |      |      |
|-------------|-------------------------------|-------|------|------|------|------|------|------|------|
|             | -40°C                         | -20°C | 0°C  | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| TRC160      | 2.48                          | 2.18  | 1.90 | 1.60 | 1.30 | 1.15 | 1.01 | 0.86 | 0.64 |

## 4、Wave Soldering Parameters



| Profile Feature                                             | Condition                   |
|-------------------------------------------------------------|-----------------------------|
| Average Ramp-Up Rate (T <sub>smax</sub> to T <sub>P</sub> ) | 4°C/second max.             |
| Preheat                                                     |                             |
| -Temperature Min (T <sub>smin</sub> )                       | 100°C                       |
| -Temperature Max (T <sub>smax</sub> )                       | 125°C                       |
| -Time (T <sub>smin</sub> to T <sub>smax</sub> )             | 60-180 seconds              |
| Peak Temperature (T <sub>P</sub> )                          | 265°C                       |
| Max Time at Peak Temperature (t <sub>P</sub> )              | 5 seconds                   |
| Ramp-Down Rate                                              | 6 °C /second max.           |
| Time 25°C to Peak Temperature                               | 5 minutes max.              |
| Storage Condition                                           | 0°C ~35°C, ≤ 70%RH, 2 Years |

## 5、Package Information

Packing quantity:500pcs/bag

## 6、Agency Recognition: TUV



Caution:Operation beyond the rated voltage or current may result in rupture electrical arcing or flame.Specifications are subject to change without notice.

TEL: 86-0769-3892 0554

FAX: 86-0769-8793 2077

E-mail:sales@tlcet.com.cn

Address:No.18,5th GaoLi Road,TangXia Town,DongGuan,GuangDong,P.R China 523710