



**Polymer PTC Resettable
Overcurrent Protectors**

**DOC.NO. ISS-TRC050
Rev. D**

INDIVIDUAL SPECIFICATION SHEET

Part Number: TRC050

(Radial Leaded Through-Hole Type Device)

PREPEARED BY

Fanny

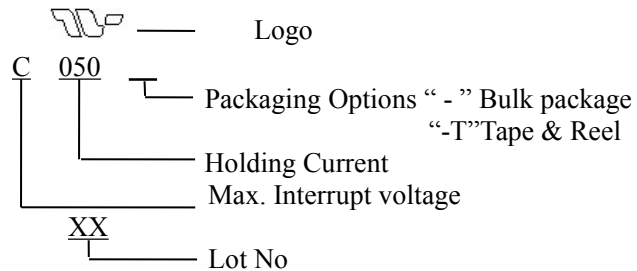
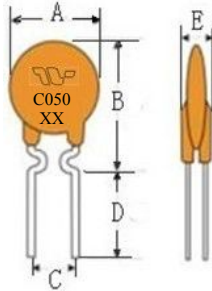
APPROVED BY

Jerry



Product Introduction

1. Product Dimensions & Outline Drawing & marking (Unit:mm)



Model	A	B	C	D	E	Lead
	MAX	MAX	TYP	MIN	MAX	Φ
TRC050	9.7	15.2	5.1	7.6	3.1	0.60

2. Electrical Properties

Model	I _H (A)	I _T (A)	V _{max} (V)	I _{max} (A)	T _{trip}		Pd _{typ} (W)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
					(A)	(S)				
TRC050	0.50	1.00	60/72	40	2.50	4.0	0.75	0.38	0.78	1.20

I_H: Holding Current: maximum current at which the device will not trip in 25°C still air.

I_T: Tripping Current minimum current at which the device will trip in 25°C still air.

V_{max}: Maximum voltage device can withstand without damage at rated current.

I_{max}: Maximum fault current device can withstand without damage at rated voltage.

T_{trip}: Maximum time to trip(s) at assigned current.

Pd_{typ}: Rated working power.

R_{min}: Minimum resistance of device prior to trip at 25°C.

R_{max}: Maximum resistance of device prior to trip at 25°C.

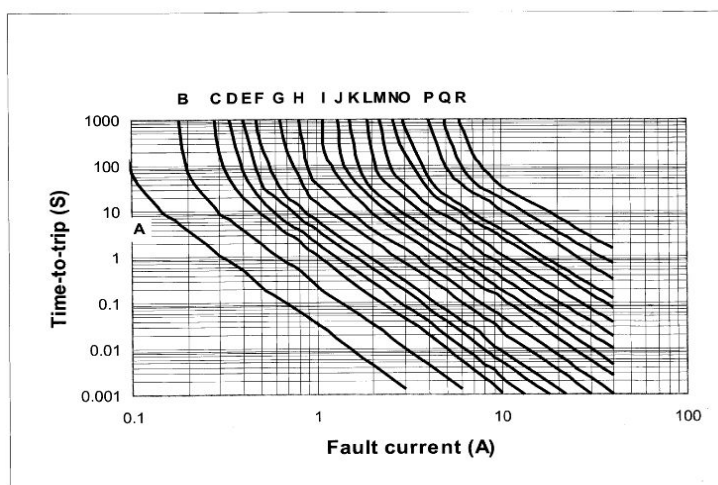
R1_{max}: Maximum resistance of device measured one hour after tripping at 25°C.

3. Thermal Derating Chart – I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
TRC050	0.78	0.68	0.60	0.50	0.41	0.36	0.32	0.27	0.20

4. Typical time to trip at 25°C

- A=TRC005
- B=TRC010
- C=TRC017
- D=TRC020
- E=TRC025
- F=TRC030
- G=TRC040
- H=TRC050
- I=TRC065
- J=TRC075
- K=TRC090
- L=TRC110
- M=TRC135
- N=TRC160
- O=TRC185
- P=TRC250
- Q=TRC300
- R=TRC375



5. Package information

- Bulk: 1000 pcs/bag