

POLYMER PTC RESETTABLE FUSE

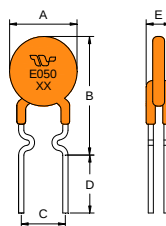


Part Number: TRE050

1、Physical Dimensions

Unit:mm

Part Number	A	B	C	D	E	Lead
	Max	Max	TYP	Min	Max	Φ
TRE050	9.4	14.9	5.1	7.6	3.8	0.60



Logo
E 050 Holding Current
Max.Interrupt voltage
XX Lot No.

2、Electrical Characteristics

Part Number	I _H (A)	I _T (A)	V _{max} OP V _{ac} (dc)	I _{max} (A)	V _{max} Interrupt V _{rms}	T _{trip} (Max time to trip)		Pd _{typ} (W)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
						Current(A)	Time(S)				
TRE050	0.50	1.00	120	3.0	135	2.5	6.0	1.56	0.40	1.00	1.17

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.

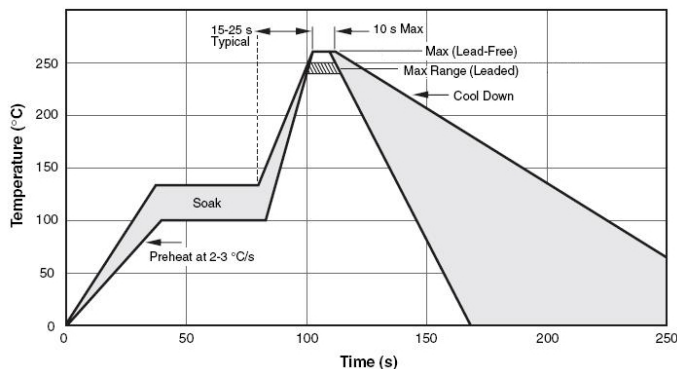
R_{max}: Maximum resistance of device prior to trip at 25°C.

R1_{max}: Maximum resistance of device 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
TRE050	0.77	0.68	0.59	0.50	0.41	0.36	0.32	0.27	0.20

4、Wave Soldering Parameters



Profile Feature	Condition
Average Ramp-Up Rate (T _{max} to TP)	4°C/second max.
Preheat	
-Temperature Min (T _{min})	100°C
-Temperature Max (T _{max})	125°C
-Time (T _{min} to T _{max})	60-180 seconds
Peak Temperature (TP)	265°C
Max Time at Peak Temperature (t _P)	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: 1000pcs/bag

Tape and Reel : 2000 pcs/reel

Tape and Reel Specifications: Devices taped using EIA468-B/IEC286-2 standards.

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.

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