

# PTC Resettable Fuse Low Rho Type

MPTS-RZ Series

MERITEK

## FEATURE

- Operation Current: 0.75A ~ 7.50A
- Maximum Voltage: 6VDC, 9VDC
- Temperature Range: -40°C to 85°C
- Semi-Circular Termination
- Excellent for high density applications
- Surface Mount, 0603, 0805, 1206, 1210, 1812
- Faster time to trip than standard SMD devices
- Lower resistance than standard SMD devices
- UL/cUL safety approved: certification No: E223037
- TUV safety approved: certification No: R50223766



## PART NUMBERING SYSTEM

**MPTS** **0805L** **110** **R** **Z**  
(1) (2) (3) (4) (5)



No	item	Digit	Description	Series Reference
(1)	Meritek Series	MPTS	Polymer Resettable Fuse Series	Surface Mount Type
(2)	Size Code	0805L	0805L: 0805 inch	0603L: 0603 inch, 1210L: 1210 inch
(3)	Hold Current	110	110: 1.1A	100: 1.0A, 075: 75mA
(4)	Termination Type	R	Semi-Circular Termination Type	Blank: Straight Termination Type
(5)	Internal Code	Z	Low Rho Series	Blank: Regular Series

## ELECTRICAL CHARACTERISTICS AT 23°C

Item	Value	Characteristics
Hold Current	1.10A	$I_H$ =Hold current-maximum current at which the device will not trip at 23°C still air.
Trip Current	1.80A	$I_T$ =Trip current-minimum current at which the device will always trip at 23°C still air.
Rated Voltage	6V <sub>DC</sub>	$V_{MAX}$ =Maximum voltage device can withstand without damage at its rated current ( $I_{MAX}$ ).
Max Current	100A	$I_{MAX}$ = Maximum fault current device can withstand without damage at rated voltage ( $V_{MAX}$ ).
Typical Power	0.6W	$P_d$ =Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.
$T_{MAX}$ to Trip	0.30Sec.	Device response time, at current of 8.0A
Resistance	$R_{MIN}$	0.030Ω $R_{MIN}$ =Minimum device resistance at 23°C prior to tripping.
	$R_{1MAX}$	0.130Ω $R_{1MAX}$ =Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

\* Termination pad materials: Pure Tin

## TYPICAL APPLICATIONS

- Battery Pack for Tablet PC & Smart Phone, Toy, GPS
- Battery Cell, Power Bank
- PCM (Protection Circuit Module)
- USB port of smart phone and tablet PC

Note: Due to its material property, Low Rho series are ONLY suitable for Short lifecycle product, such as Powerbank, Rechargeable battery, Smart Phone, Tablet PC. It is not suitable for Medium-Long lifecycle products, such as Automotive, Equipment, Medical, Aerospace, Military, etc.

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## ELECTRICAL CHARACTERISTICS (23°C)

### MPTS0402

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
						Current	Time	R <sub>MIN</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>	I <sub>MAX</sub> , A	P <sub>d</sub> , W	A	Sec	Ω	Ω
MPTS0402L010RZ	0.10	0.30	6	100	0.5	0.50	1.0	0.150	2.000
MPTS0402L020RZ	0.20	0.50	6	100	0.5	1.00	1.0	0.100	1.250
MPTS0402L035RZ	0.35	0.70	6	100	0.5	8.00	0.1	0.050	0.700
MPTS0402L050RZ	0.50	1.00	6	100	0.5	8.00	0.1	0.040	0.400

### MPTS0603

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
						Current	Time	R <sub>MIN</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>	I <sub>MAX</sub> , A	P <sub>d</sub> , W	A	Sec	Ω	Ω
MPTS0603L025RZ	0.25	0.55	9	100	0.5	8.0	0.08	0.500	3.000
MPTS0603L035RZ	0.35	0.75	6	100	0.5	8.0	0.10	0.200	1.000
MPTS0603L050RZ	0.50	1.00	6	100	0.6	8.0	0.10	0.070	0.350
MPTS0603L075RZ	0.75	1.50	6	100	0.6	8.0	0.20	0.050	0.250
MPTS0603L100RZ	1.00	1.80	6	100	0.6	8.0	0.30	0.040	0.120
MPTS0603L150RZ	1.50	3.00	6	100	0.6	8.0	0.50	0.007	0.080

### MPTS0805

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
						Current	Time	R <sub>MIN</sub>	R <sub>1MAX</sub>
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>	I <sub>MAX</sub> , A	P <sub>d</sub> , W	A	Sec	Ω	Ω
MPTS0805L075RZ	0.75	1.50	6	100	0.6	8.0	0.20	0.040	0.160
MPTS0805L110RZ	1.10	1.80	6	100	0.6	8.0	0.30	0.030	0.130
MPTS0805L125RZ	1.25	2.50	6	100	0.6	8.0	0.30	0.025	0.110
MPTS0805L150RZ	1.50	3.00	6	100	0.6	8.0	0.30	0.015	0.065
MPTS0805L175RZ	1.75	3.50	6	100	0.6	8.0	0.60	0.005	0.055
MPTS0805L200RZ	2.00	4.00	6	100	0.6	8.0	1.00	0.005	0.045
MPTS0805L260RZ	2.60	5.20	6	100	0.6	8.0	4.00	0.003	0.035
MPTS0805L300RZ	3.00	7.00	6	100	0.6	8.0	5.00	0.003	0.030
MPTS0805L350RZ	3.50	7.00	6	100	0.6	8.0	5.00	0.002	0.025

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## ELECTRICAL CHARACTERISTICS (23°C) (CONTINUED)

### MPTS1206

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	Current	Time	$R_{MIN}$	$R1_{MAX}$
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	A	Sec	$\Omega$	$\Omega$
MPTS1206L050RZ	0.50	1.50	6	100	0.8	8.0	0.20	0.025	0.200
MPTS1206L075RZ	0.75	1.80	6	100	0.8	8.0	0.30	0.018	0.180
MPTS1206L110RZ	1.10	2.20	6	100	0.8	8.0	0.30	0.015	0.100
MPTS1206L150RZ	1.50	3.00	6	100	0.8	8.0	0.30	0.010	0.065
MPTS1206L175RZ	1.75	3.50	6	100	0.8	8.0	0.40	0.005	0.030
MPTS1206L200RZ	2.00	4.00	6	100	0.8	8.0	0.50	0.005	0.025
MPTS1206L260RZ	2.60	5.20	6	100	0.8	8.0	4.00	0.003	0.026
MPTS1206L300RZ	3.00	6.00	6	100	0.8	8.0	4.00	0.003	0.020
MPTS1206L350RZ	3.50	7.00	6	100	0.8	8.0	5.00	0.003	0.018
MPTS1206L380RZ	3.80	8.00	6	100	0.8	8.0	5.00	0.002	0.014
MPTS1206L450RZ	4.50	9.00	6	100	0.8	22.5	2.00	0.001	0.014
MPTS1206L500RZ	5.00	10.00	6	100	0.8	25.0	5.00	0.002	0.010
MPTS1206L600RZ	6.00	12.00	6	100	1.0	30.0	2.00	0.001	0.008
MPTS1206L700RZ	7.00	14.00	6	100	1.0	35.0	2.00	0.001	0.008

### MPTS1210

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	Current	Time	$R_{MIN}$	$R1_{MAX}$
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	A	Sec	$\Omega$	$\Omega$
MPTS1210L175RZ	1.75	3.50	6	100	1.0	8.0	2.50	0.006	0.040
MPTS1210L200RZ	2.00	4.90	6	100	1.0	8.0	3.00	0.005	0.024
MPTS1210L260RZ	2.60	5.00	6	100	0.8	8.0	4.00	0.003	0.020
MPTS1210L300RZ	3.00	6.00	6	100	0.8	15.00	2.00	0.003	0.020
MPTS1210L350RZ	3.50	7.00	6	100	1.0	17.50	2.00	0.003	0.018
MPTS1210L380RZ	3.80	8.00	6	100	1.0	8.0	5.00	0.002	0.016
MPTS1210L400RZ	4.00	8.00	6	100	1.0	8.00	5.00	0.002	0.016
MPTS1210L450RZ	4.50	9.00	6	100	1.0	22.50	2.00	0.001	0.014
MPTS1210L650RZ	6.50	13.00	6	100	1.2	32.50	2.00	0.001	0.009
MPTS1210L700RZ	7.00	14.00	6	100	1.2	35.00	2.00	0.001	0.008
MPTS1210L750RZ	7.50	15.00	6	100	1.2	37.5	2.00	0.001	0.007

### MPTS1812

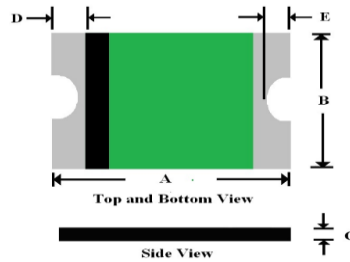
Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	Current	Time	$R_{MIN}$	$R1_{MAX}$
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , V <sub>DC</sub>	$I_{MAX}$ , A	$P_d$ , W	A	Sec	$\Omega$	$\Omega$
MPTS1812L140RZ	1.40	3.60	6	100	1.0	8.0	3.00	0.0100	0.0350
MPTS1812L190RZ	1.90	4.90	6	100	1.0	8.0	5.00	0.0030	0.0250
MPTS1812L270RZ	2.70	6.20	6	100	1.0	13.5	3.00	0.0030	0.0230
MPTS1812L300RZ	3.00	7.00	6	100	1.0	15.0	2.00	0.0030	0.0220
MPTS1812L370RZ	3.70	9.10	6	100	1.0	18.5	2.00	0.0030	0.0180
MPTS1812L500RZ	5.00	10.00	6	100	1.0	25.0	2.00	0.0015	0.0140
MPTS1812L600RZ	6.00	12.00	6	100	1.0	30.0	3.00	0.0010	0.0100

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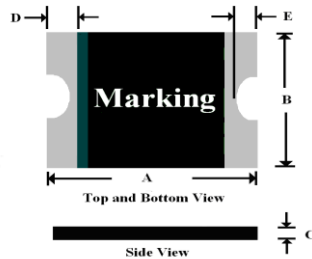
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## DIMENSIONS



### MPTS0402

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS0402L010RZ	0.85	1.15	0.35	0.65	0.3	0.6	0.1	0.45	0.05	0.40
MPTS0402L020RZ	0.85	1.15	0.35	0.65	0.3	0.6	0.1	0.45	0.05	0.40
MPTS0402L035RZ	0.85	1.15	0.35	0.65	0.3	0.6	0.1	0.45	0.05	0.40
MPTS0402L050RZ	0.85	1.15	0.35	0.65	0.3	0.6	0.1	0.45	0.05	0.40



### MPTS0603

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS0603L025RZ	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
MPTS0603L035RZ	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
MPTS0603L050RZ	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
MPTS0603L075RZ	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
MPTS0603L100RZ	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
MPTS0603L150RZ	1.40	1.80	0.60	1.00	0.60	1.00	0.10	0.50	0.08	0.40

### MPTS0805

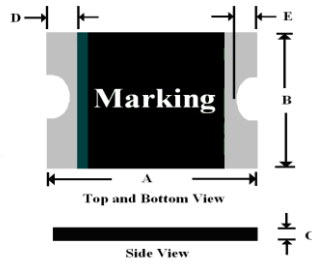
Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS0805L075RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L110RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L125RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L150RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L175RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L200RZ	2.00	2.20	1.20	1.50	0.40	0.75	0.20	0.60	0.10	0.45
MPTS0805L260RZ	2.00	2.20	1.20	1.50	0.60	1.40	0.20	0.60	0.10	0.45
MPTS0805L300RZ	2.00	2.20	1.20	1.50	0.60	1.40	0.20	0.60	0.10	0.45
MPTS0805L350RZ	2.00	2.20	1.20	1.50	0.60	1.40	0.20	0.60	0.10	0.45

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## DIMENSIONS (CONTINUED)



### MPTS1206

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS1206L050RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L075RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L110RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L150RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L175RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L200RZ	3.00	3.50	1.50	1.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1206L260RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L300RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L350RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L380RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L450RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L500RZ	3.00	3.50	1.50	1.80	0.80	1.40	0.25	0.75	0.10	0.45
MPTS1206L600RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1206L700RZ	3.00	3.50	1.50	1.80	0.60	1.00	0.25	0.75	0.10	0.45

### MPTS1210

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS1210L175RZ	3.00	3.43	2.35	2.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1210L200RZ	3.00	3.43	2.35	2.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1210L260RZ	3.00	3.43	2.35	2.80	0.40	0.75	0.25	0.75	0.10	0.45
MPTS1210L300RZ	3.00	3.43	2.35	2.80	0.40	1.00	0.25	0.75	0.10	0.45
MPTS1210L350RZ	3.00	3.43	2.35	2.80	0.40	1.00	0.25	0.75	0.10	0.45
MPTS1210L380RZ	3.00	3.43	2.35	2.80	0.40	1.00	0.25	0.75	0.10	0.45
MPTS1210L400RZ	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1210L450RZ	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1210L650RZ	3.00	3.43	2.35	2.80	0.60	1.40	0.25	0.75	0.10	0.45
MPTS1210L700RZ	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45
MPTS1210L750RZ	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45

### MPTS1812

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		E (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPTS1812L140RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
MPTS1812L190RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
MPTS1812L270RZ	4.37	4.73	3.07	3.41	0.40	0.75	0.25	0.95	0.25	0.65
MPTS1812L300RZ	4.37	4.73	3.07	3.41	0.40	0.75	0.25	0.95	0.25	0.65
MPTS1812L370RZ	4.37	4.73	3.07	3.41	0.40	0.75	0.25	0.95	0.25	0.65
MPTS1812L500RZ	4.37	4.73	3.07	3.41	0.40	0.75	0.25	0.95	0.25	0.65
MPTS1812L600RZ	4.37	4.73	3.07	3.41	0.60	1.00	0.25	0.95	0.25	0.65

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## SOLDERING PAD SPECIFICATION

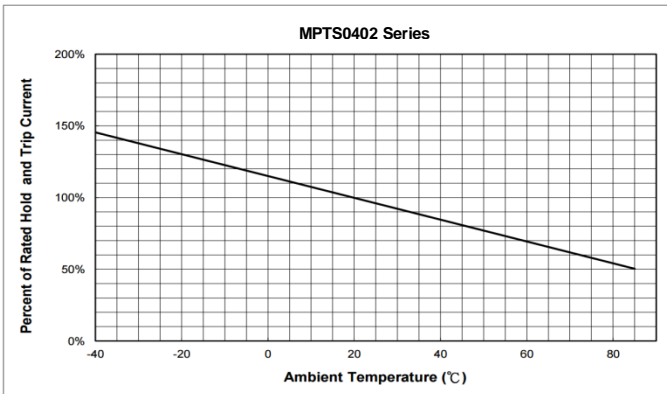
Unit: mm

Size	A Nominal	B Nominal	C Nominal
0402	0.40	0.60	0.70
0603	0.80	0.60	0.80
0805	1.20	1.00	1.50
1206	2.00	1.00	1.90
1210	2.00	1.00	2.80
1812	3.45	1.78	3.50
2920	5.10	2.30	5.60

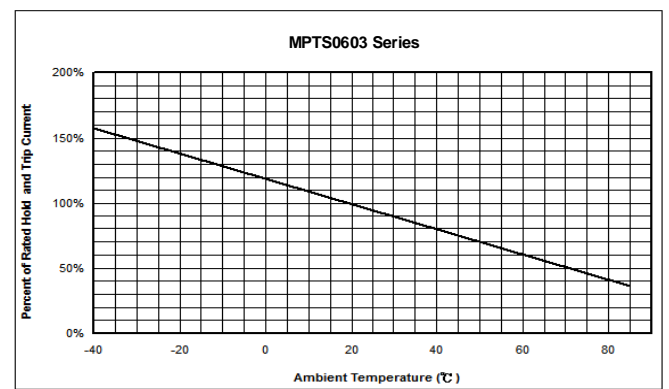


## THERMAL DERATING CURVE

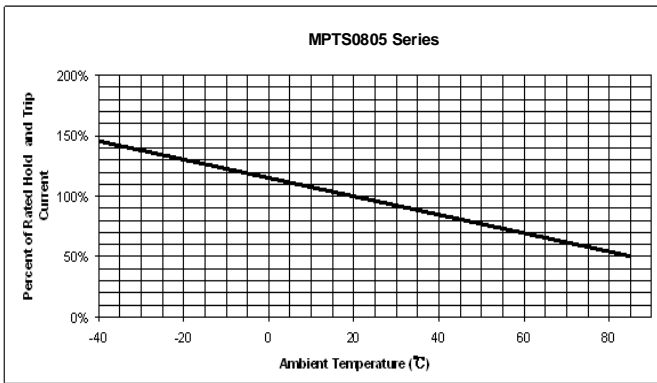
MPTS0402 Series



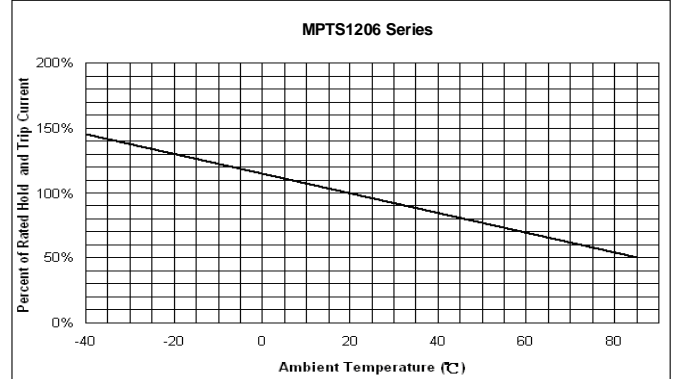
MPTS0603 Series



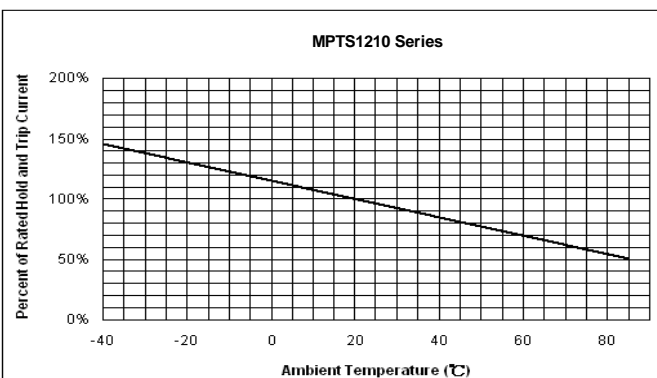
MPTS0805 Series



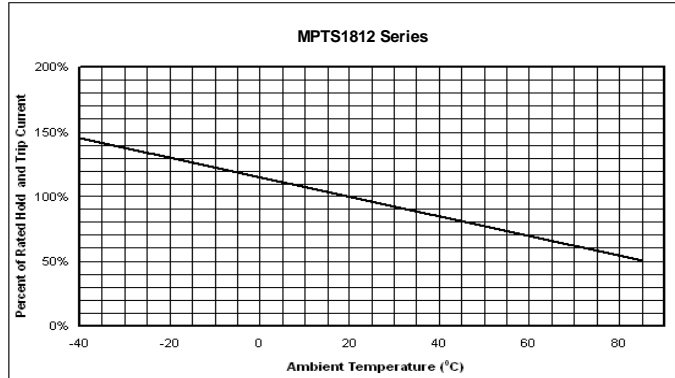
MPTS1206 Series



MPTS1210 Series



MPTS1812 Series



# PTC Resettable Fuse Low Rho Type

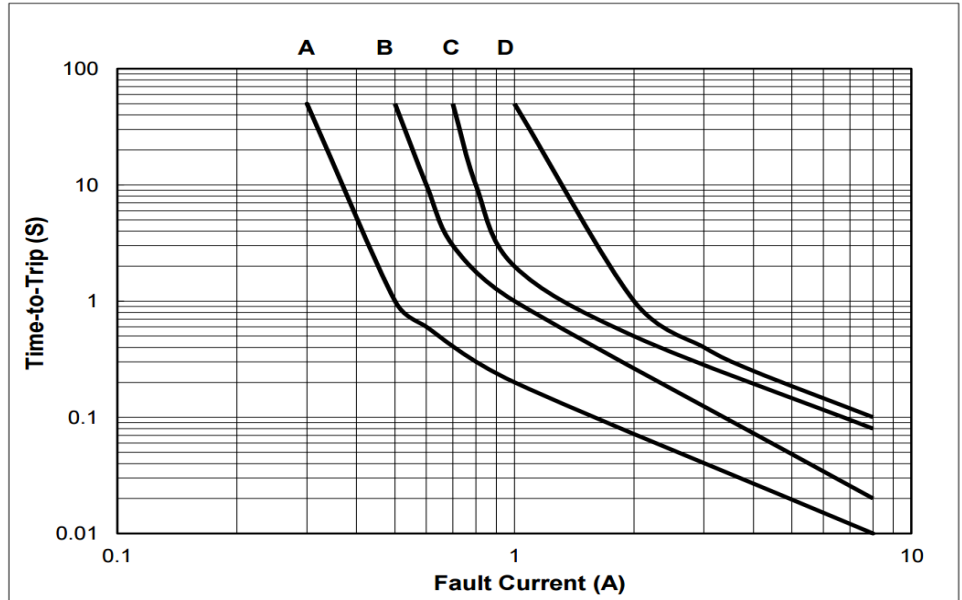
MPTS-RZ Series

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## TYPICAL TIME-TO-TRIP AT 23°C

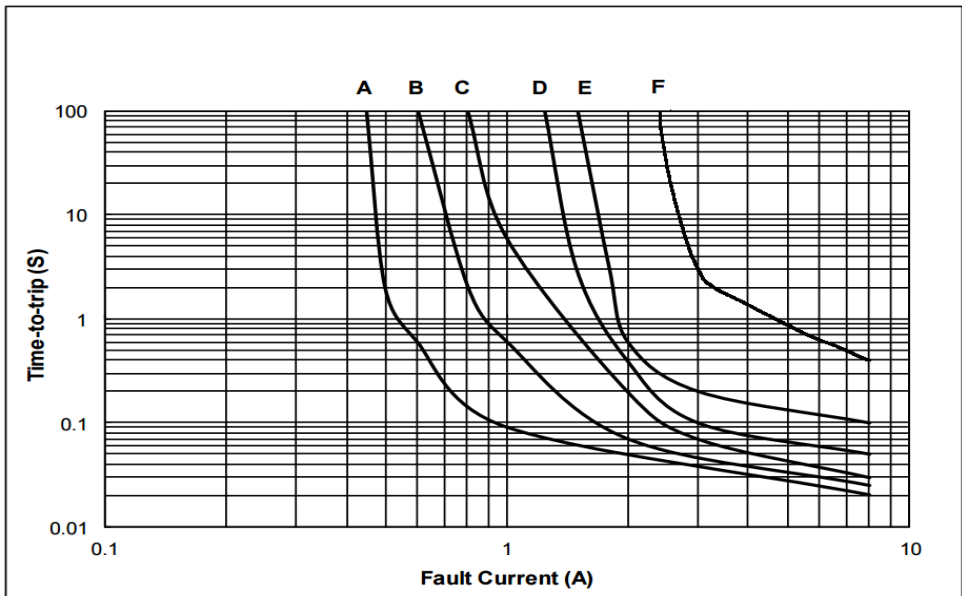
### MPTS0402 Series

- A = MPTS0402L010RZ
- B = MPTS0402L020RZ
- C = MPTS0402L035RZ
- D = MPTS0402L050RZ



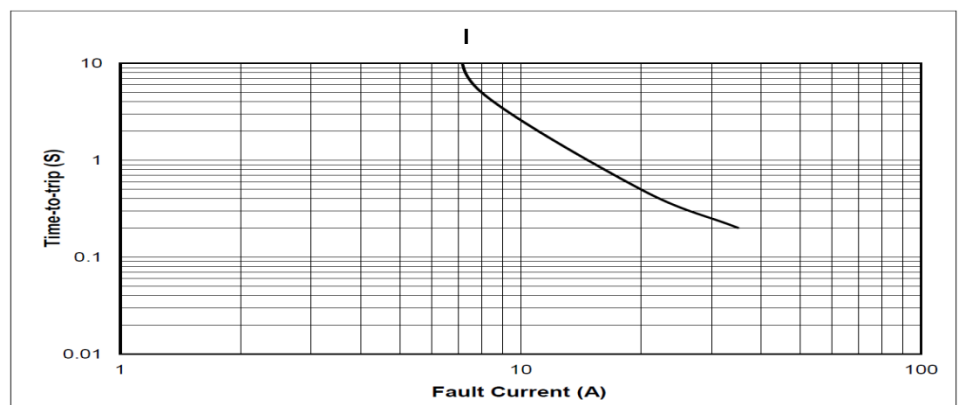
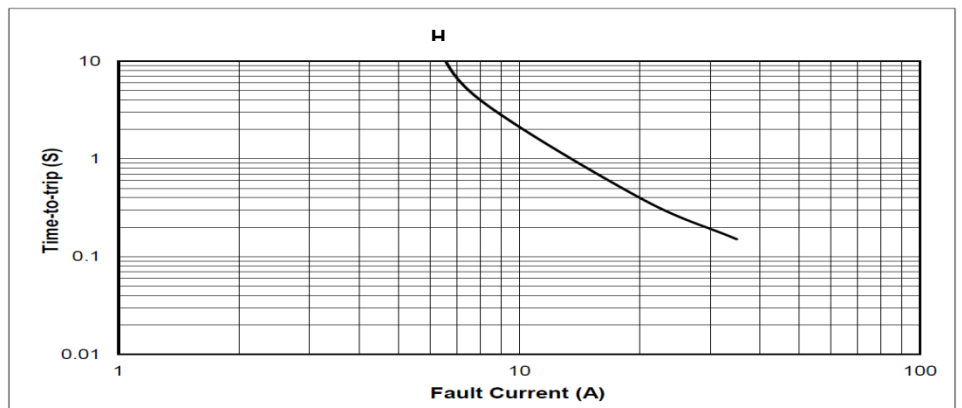
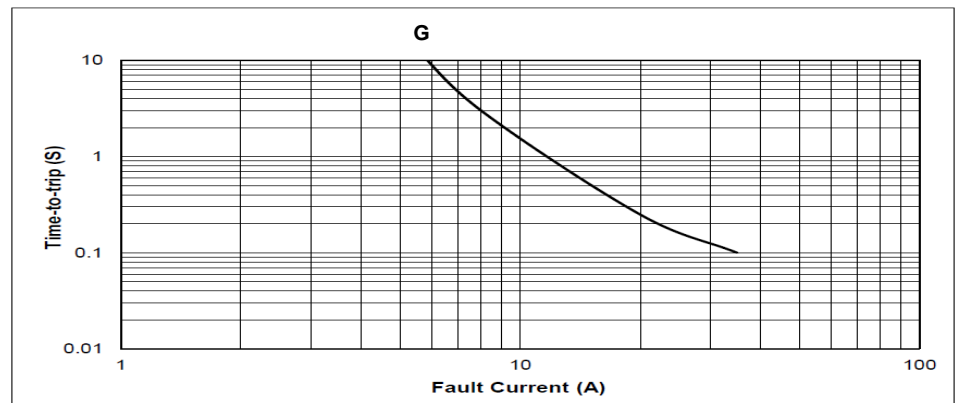
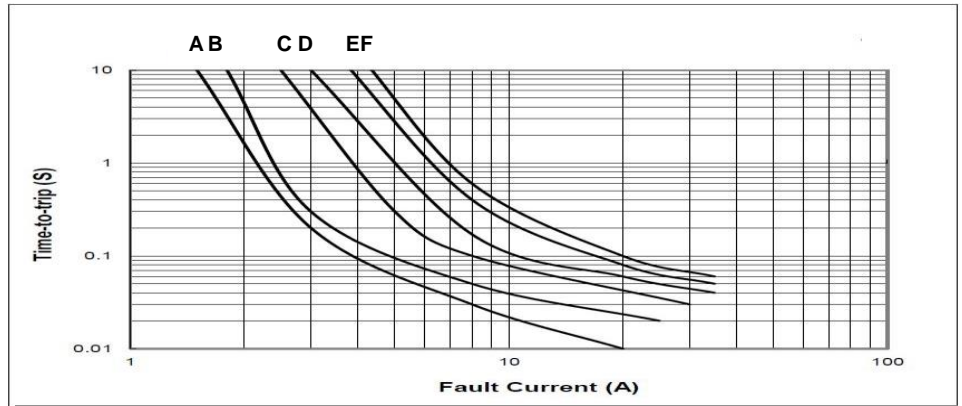
### MPTS0603 Series

- A = MPTS0603L025RZ
- B = MPTS0603L035RZ
- C = MPTS0603L050RZ
- D = MPTS0603L075RZ
- E = MPTS0603L100RZ
- F = MPTS0603L150RZ



**TYPICAL TIME-TO-TRIP AT 23°C (CONTINUED)**

**MPTS0805 Series**



- A = MPTS0805L078RZ
- B = MPTS0805L110RZ
- C = MPTS0805L125RZ
- D = MPTS0805L150RZ
- E = MPTS0805L175RZ
- F = MPTS0805L200RZ
- G = MPTS0805L260RZ
- H = MPTS0805L300RZ
- I = MPTS0805L350RZ



# PTC Resettable Fuse Low Rho Type

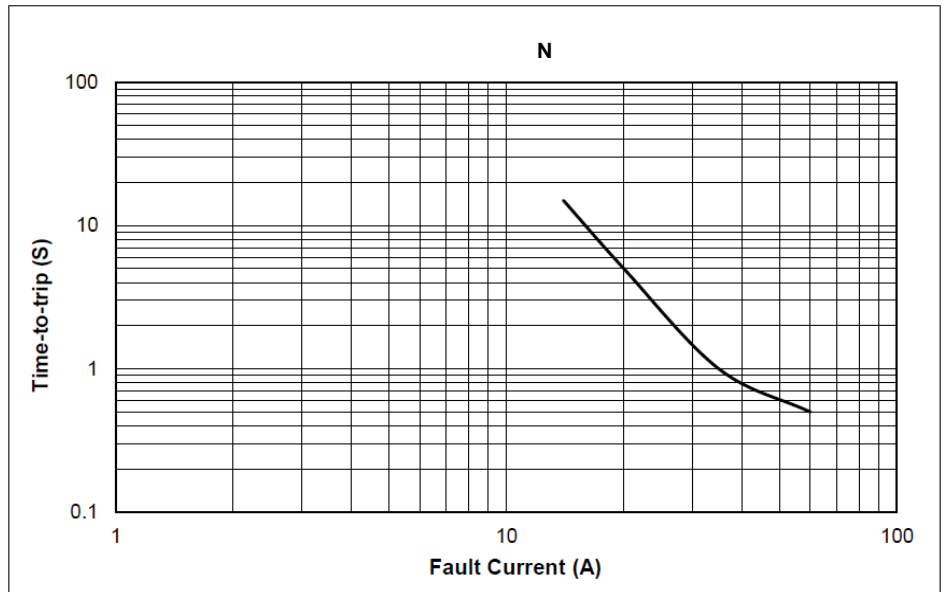
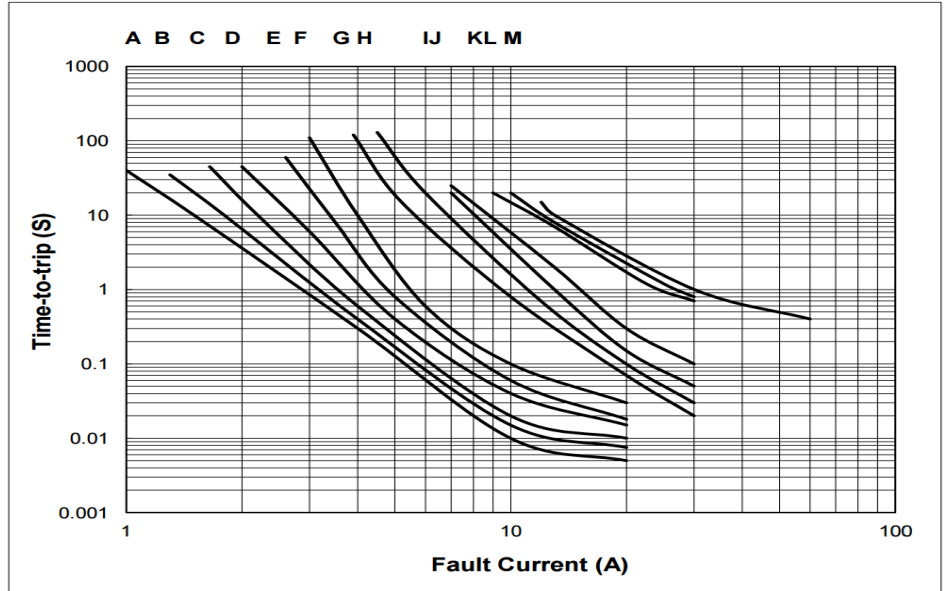
MPTS-RZ Series

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## TYPICAL TIME-TO-TRIP AT 23°C (CONTINUED)

### MPTS1206 Series

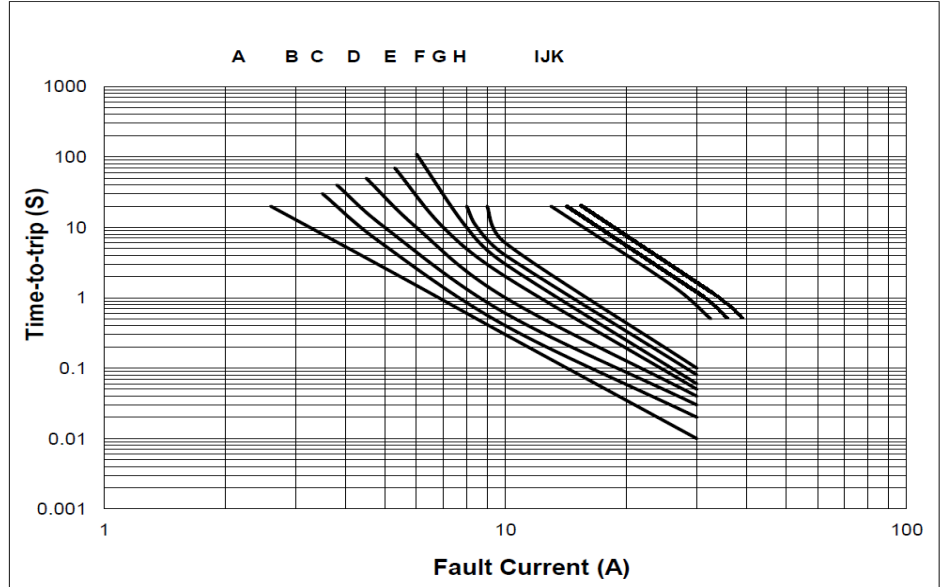
- A = MPTS1206L050RZ
- B = MPTS1206L075RZ
- C = MPTS1206L110RZ
- D = MPTS1206L150RZ
- E = MPTS1206L175RZ
- F = MPTS1206L200RZ
- G = MPTS1206L260RZ
- H = MPTS1206L300RZ
- I = MPTS1206L350RZ
- J = MPTS1206L380RZ
- K = MPTS1206L450RZ
- L = MPTS1206L500RZ
- M = MPTS1206L600RZ
- N = MPTS1206L700RZ



### TYPICAL TIME-TO-TRIP AT 23°C (CONTINUED)

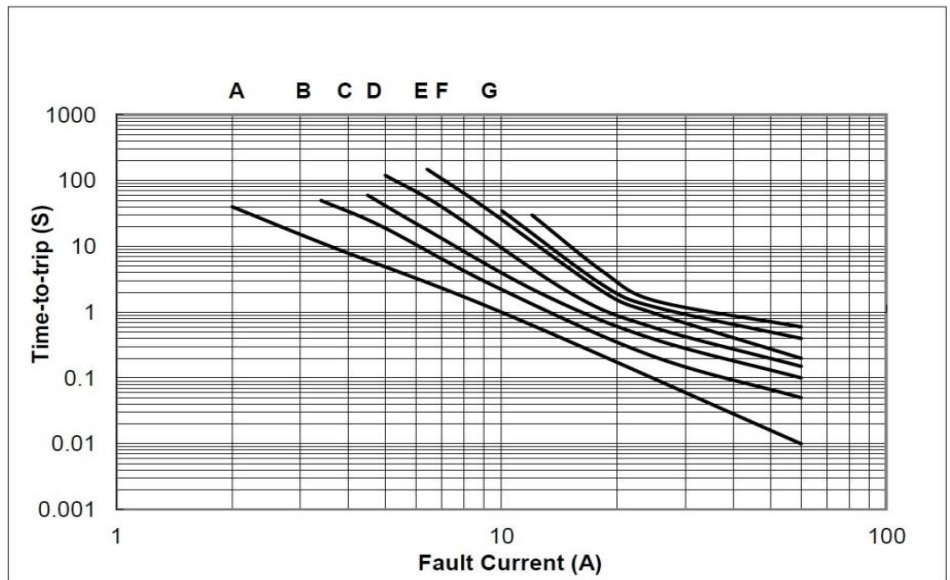
#### MPTS1210 Series

- A = MPTS1210L175RZ
- B = MPTS1210L200RZ
- C = MPTS1210L260RZ
- D = MPTS1210L300RZ
- E = MPTS1210L350RZ
- F = MPTS1210L380RZ
- G = MPTS1210L400RZ
- H = MPTS1210L450RZ
- I = MPTS1210L650RZ
- J = MPTS1210L700RZ
- K = MPTS1210L750RZ



#### MPTS1812 Series

- A = MPTS1812L140RZ
- B = MPTS1812L190RZ
- C = MPTS1812L270RZ
- D = MPTS1812L300RZ
- E = MPTS1812L370RZ
- F = MPTS1812L500RZ
- G = MPTS1812L600RZ



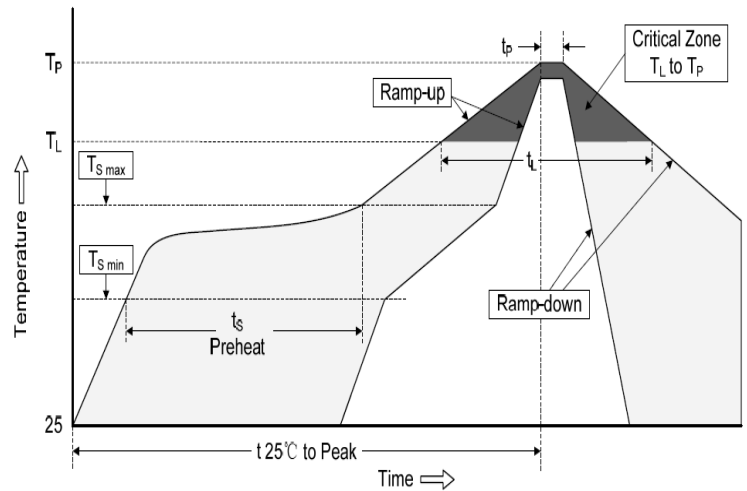
# PTC Resettable Fuse Low Rho Type

MPTS-RZ Series

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## RECOMMENDED SOLDERING PROFILES

Reflow Condition		
Pre Heat	Temp. Min $T_{s(min)}$	150°C
	Tempe. Max $T_{s(max)}$	200°C
	Time (min. to max.) ( $t_s$ )	60-180 seconds
Average ramp up rate (Temperature) ( $T_A$ ) to peak		3°C/second max.
$T_{s(max)}$ to $T_A$ (Ramp-up rate)		3°C/second max.
Reflow	Temp. ( $T_A$ )	217°C
	Time (min. to max.) ( $t_s$ )	60-150 seconds
Peak Temperature ( $T_P$ )		260 <sup>+/-0.5</sup> °C
Time within 5°C of actual peak Temperature ( $t_p$ )		20-40 seconds
Ramp-down Rate		6°C/second max.
Time 25°C to peak Temp. ( $T_P$ )		8 minutes max.



## REWORK RECOMENDATIONS

### Solder reflow

- Recommended max past thickness > 0.25mm.
- Devices can be cleaned using standard methods and aqueous solvent.
- Rework should utilize standard industry practices. These changes should apply to all notes for each case size.
- Storage Environment : < 30°C / 60%RH

### Caution:

- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

## WARNING

- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
- PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip is not anticipated.
- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance

**NOTE:** Specification subject to change without notice.