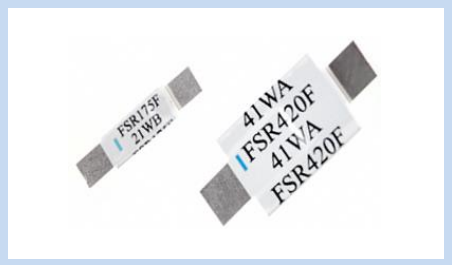
PTC Resettable Fuse
Strap Type 1.9A to 7.3A

MPLR Series

MERITEK

FEATURE



- **Operation Current: 1.9A to 7.3A**
- **Maximum Operating Voltage: 15V and 20V**
- **Temperature Range: -40ºC to 85ºC**
- **Low profile, Solid state, Low resistance, High hold current**
- **Electronic applications: Rechargeable battery packs, Lithium cell, battery packs and laptop computer**
- **UL/cUL safety approved: certification No: E223037**

PART NUMBERING SYSTEM

RoHS

MPLR **190**
(1) (2)

No	Item	Digit	Description	Series Reference
(1)	**Meritek Series**	MPLR	Polymer Resettable Fuse Series	Strap Type
(2)	**Current Rating**	190	190: 1.9A	260: 2.6A

ELECTRICAL CHARACTERISTICS AT 23ºC

Item	Value		Characteristics
Hold Current	1.9A		**I_H**=Hold current-maximum current at which the device will not trip at 23ºC still air.
Trip Current	3.9A		**I_T**=Trip current-minimum current at which the device will always trip at 23ºC still air.
Rated Voltage	$15V_{DC}$		**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	1.2W		**P_d**=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23ºC still air environment.
T_{MAX} to Trip	5.0Sec.		Device response time, at current of 5 X Hold Current: 9.5A.
Resistance	R_{MIN}	0.039 Ω	**R_{MIN}**=Minimum device resistance at 23ºC prior to tripping.
	R_{MAX}	0.072 Ω	**R_{MAX}**=Maximum device resistance at 23ºC prior to tripping.
	$R1_{MAX}$	0.102 Ω	**$R1_{MAX}$**=Maximum device resistance at 23ºC measured 1 hour after tripping or reflow soldering of 260ºC for 20 seconds.

* Lead material: 0.13mm nominal thickness, quarter-hard nickel
* Insulating material: Polyester tape.

PTC Resettable Fuse
Strap Type 1.9A to 7.3A

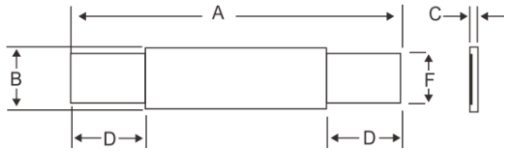
MPLR Series

MERITEK

ELECTRICAL CHARACTERISTICS AT 23ºC

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance		
							R_{MIN}	R_{MAX}	$R1_{MAX}$
	I_H, A	I_T, A	@5x I_H, S	I_{MAX}, A	V_{MAX}, V_{DC}	P_d, W	ohms	ohms	ohms
MPLR190	1.9	3.9	5.0	100	15	1.2	0.039	0.072	0.102
MPLR260	2.6	5.8	5.0	100	15	2.5	0.020	0.042	0.063
MPLR380	3.8	8.3	5.0	100	15	2.5	0.013	0.026	0.037
MPLR450	4.5	8.9	5.0	100	20	2.5	0.011	0.020	0.028
MPLR550	5.5	10.5	5.0	100	20	2.8	0.009	0.016	0.022
MPLR660	6.0	11.7	5.0	100	20	2.8	0.007	0.014	0.019
MPLR730	7.3	14.1	5.0	100	20	3.3	0.006	0.012	0.015

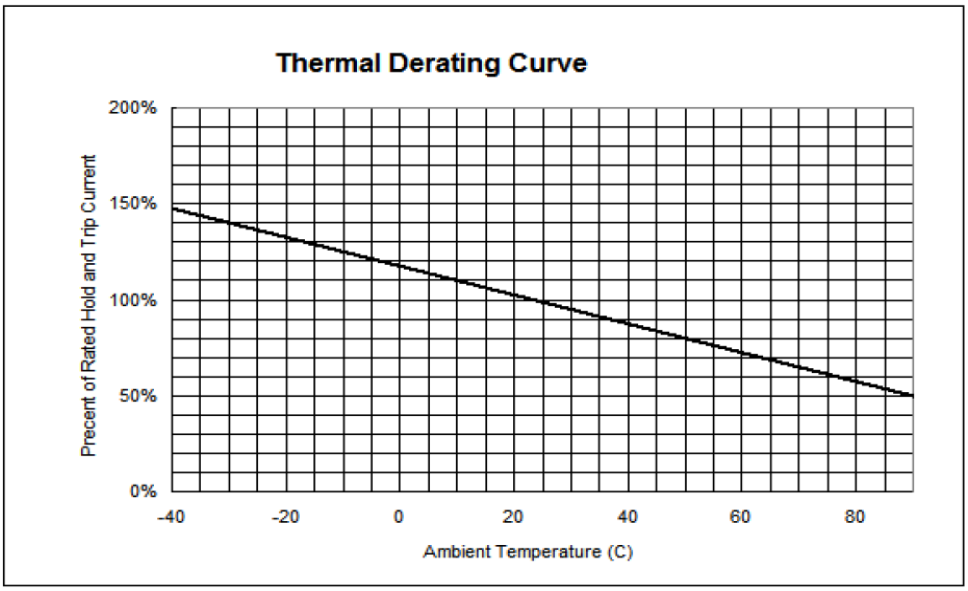
DIMENSIONS



Top View

Part Number	A (mm)		B (mm)		C (mm)		D (mm)		F (mm)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPLR190	19.9	22.1	4.9	5.5	0.6	1.0	5.5	7.5	3.9	4.1
MPLR260	20.9	23.1	4.9	5.5	0.6	1.0	4.1	5.5	3.9	4.1
MPLR380	24.0	26.0	6.9	7.5	0.6	1.0	4.1	5.5	4.9	5.1
MPLR450	24.0	26.0	9.9	10.5	0.6	1.0	5.3	6.7	5.9	6.1
MPLR550	35.0	37.0	6.9	7.5	0.6	1.0	5.3	6.7	4.9	5.1
MPLR660	24.0	26.0	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1
MPLR730	27.1	29.1	13.9	14.5	0.6	1.0	4.1	5.5	5.9	6.1

THERMAL DERATING CURVE



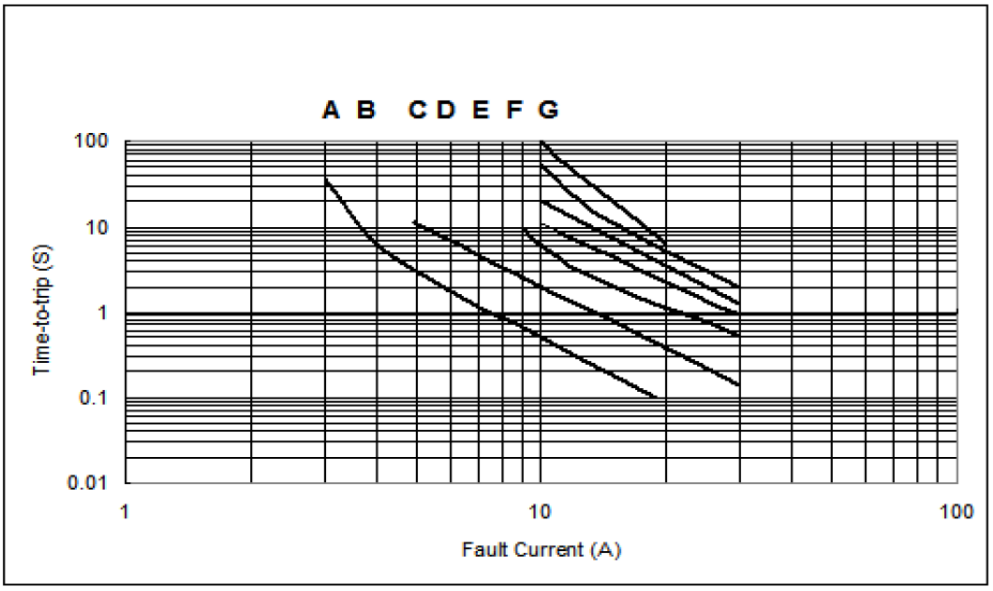
PTC Resettable Fuse
Strap Type 1.9A to 7.3A

MPLR Series

MERITEK

TYPICAL TIME-TO-TRIP AT 23ºC

A = MPLR190
B = MPLR260
C = MPLR380
D = MPLR450
E = MPLR550
F = MPLR600
G = MPLR730



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.