

Polymeric PTC



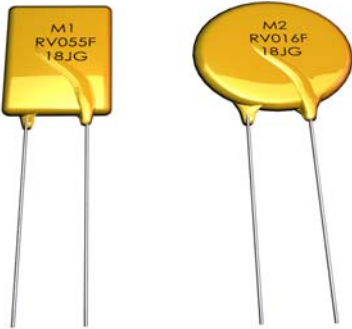
MPRV Series

MERITEK

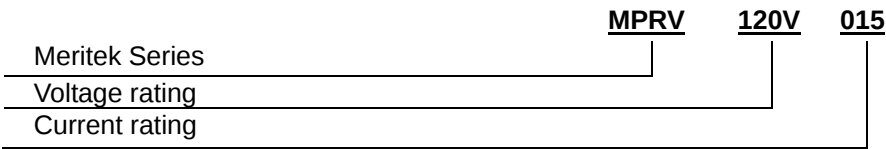
Feature and Applications

UL E223037

- ROHS Compliant (Lead Free) Product
- Wide variety of electronic applications
- Radial leaded type
- Operation Current: 100mA to 3.75A
- Maximum Operating Voltage: 120V
- Maximum Interrupt Voltage: 135V
- Temperature Range: -40°C to 85°C



PART NUMBERING SYSTEM





Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H , A	I _T , A	at 5X I _H , Sec	I _{max} , A	V _{max} , V	P _d , W	R _{min} ohms	R _{1max} . ohms
MPRV120V010	0.10	0.20	10.0	2.0	120	0.84	3.00	7.50
MPRV120V017	0.17	0.34	10.0	2.0	120	0.84	2.00	7.00
MPRV120V020	0.20	0.40	9.0	2.0	120	1.08	1.83	4.40
MPRV120V025	0.25	0.50	7.5	3.0	120	1.08	1.25	3.00
MPRV120V030	0.30	0.60	8.5	3.0	120	1.44	0.88	2.10
MPRV120V040	0.40	0.80	6.5	3.0	120	1.44	0.55	1.29
MPRV120V050	0.50	1.00	6.0	3.0	120	1.56	0.50	1.17
MPRV120V065	0.65	1.30	5.7	5.0	120	1.68	0.31	0.72
MPRV120V070	0.75	1.50	6.3	5.0	120	1.80	0.25	0.60
MPRV120V075	0.75	1.50	15.0	7.5	120	2.64	0.25	0.69
MPRV120V090	0.90	1.80	7.2	5.0	120	1.80	0.20	0.47
MPRV120V100	1.00	2.00	15.0	10.0	120	2.64	0.18	0.47
MPRV120V110	1.10	2.20	8.2	8.0	120	2.28	0.15	0.38
MPRV120V125	1.25	2.50	20.0	12.5	120	2.88	0.11	0.33
MPRV120V130	1.35	2.70	9.6	10.0	120	2.64	0.12	0.30
MPRV120V135	1.35	2.70	20.0	13.5	120	3.12	0.11	0.30
MPRV120V160	1.60	3.20	11.4	12.0	120	3.12	0.09	0.22
MPRV120V185	1.85	3.70	12.6	12.0	120	3.36	0.08	0.19
MPRV120V200	2.00	4.20	36.0	20.0	120	4.32	0.08	0.21
MPRV120V250	2.50	5.00	15.6	15.0	120	4.44	0.05	0.13
MPRV120V300	3.00	6.00	19.8	17.0	120	4.56	0.04	0.10
MPRV120V375	3.75	7.50	24.0	20.0	120	4.80	0.03	0.08

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-minimum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at its rated current (I_{MAX}).

I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

P_d=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

R_{min}=Minimum device resistance at 23°C prior to tripping.

R_{1MAX}=Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

Termination pad materials: Pure Tin

Product Dimensions (Millimeters)

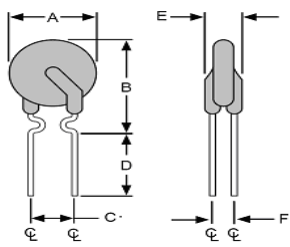


Figure 1
Lead Size: 24AWG
Φ 0.51 mm Diameter

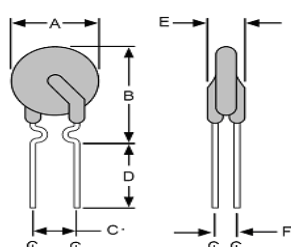


Figure 2
Lead Size: 22AWG
Φ 0.65 mm Diameter

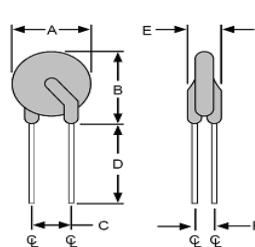


Figure 3
Lead Size: 20AWG
Φ 0.81 mm Diameter

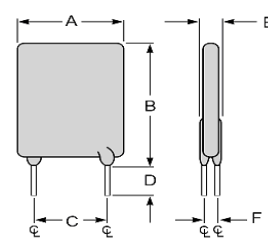


Figure 4
Lead Size: 20AWG
Φ 0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
MPRV120V010	1	7.9	13.0	5.1	7.6	3.8	2.2
MPRV120V017	1	7.9	13.0	5.1	7.6	3.8	2.2
MPRV120V020	2	7.9	13.0	5.1	7.6	3.8	2.2
MPRV120V025	2	7.9	13.0	5.1	7.6	3.8	2.2
MPRV120V030	2	7.9	13.0	5.1	7.6	3.8	2.2
MPRV120V040	2	8.2	14.2	5.1	7.6	3.8	2.2
MPRV120V050	2	9.2	14.9	5.1	7.6	3.8	2.2
MPRV120V065	2	9.7	14.9	5.1	7.6	3.8	2.2
MPRV120V070	2	10.6	15.5	5.1	7.6	3.8	2.2
MPRV120V075	4	10.9	17.0	5.1	7.6	4.1	2.2
MPRV120V090	2	11.9	15.9	5.1	7.6	3.8	2.2
MPRV120V100	4	11.5	20.1	5.1	7.6	4.1	2.2
MPRV120V110	3	13.3	18.3	5.1	7.6	4.1	2.2
MPRV120V125	4	14.0	21.7	5.1	7.6	4.1	2.2
MPRV120V130	3	15.5	20.6	5.1	7.6	4.1	2.2
MPRV120V135	4	16.3	21.7	5.1	7.6	4.1	2.2
MPRV120V160	3	17.5	22.5	5.1	7.6	4.1	2.2
MPRV120V185	3	19.9	24.9	5.1	7.6	4.1	2.2
MPRV120V200	4	23.5	27.9	10.2	7.6	4.1	2.2
MPRV120V250	3	22.5	27.5	10.2	7.6	4.1	2.2
MPRV120V300	3	25.5	30.0	10.2	7.6	4.1	2.2
MPRV120V375	3	29.5	34.0	10.2	7.6	4.1	2.2

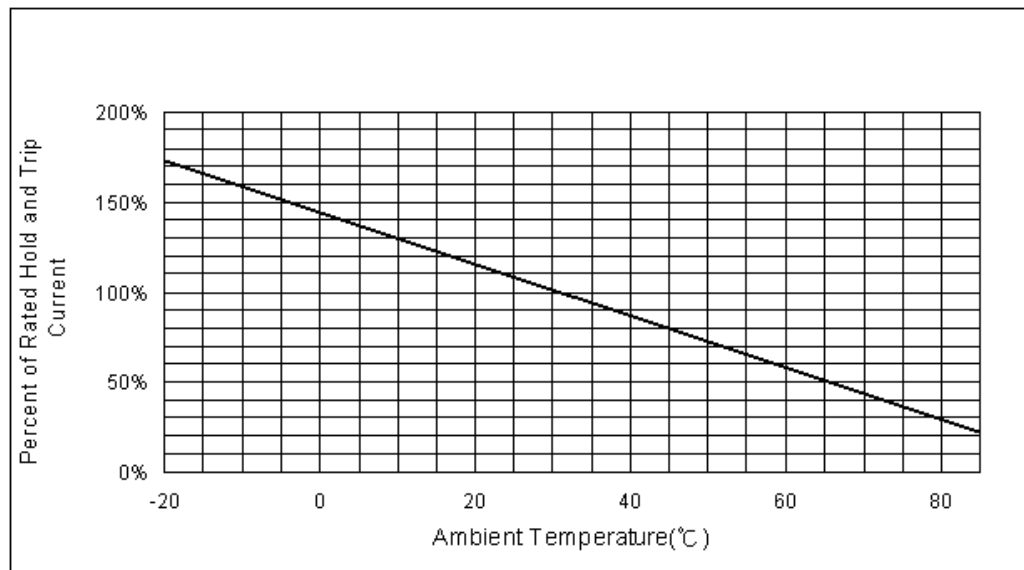
Polymeric PTC



MPRV Series

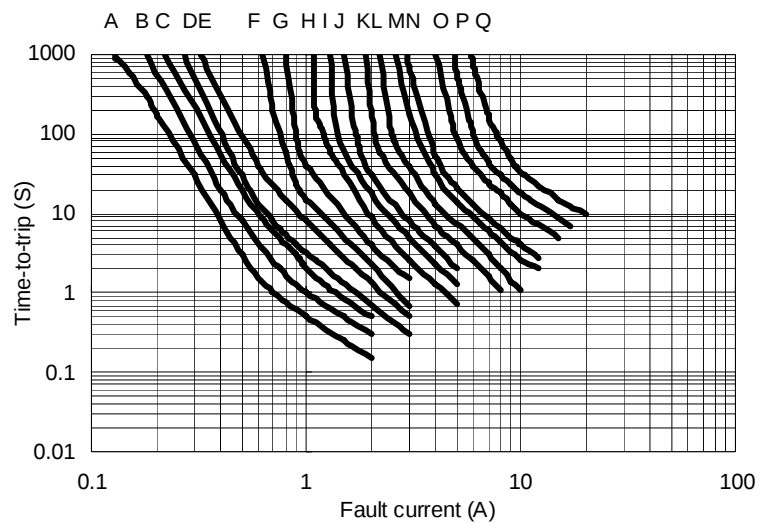
MERITEK

Thermal Derating Curve



Typical Time-To-Trip at 23°C

A = MPRV120V010
B = MPRV120V017
C = MPRV120V020
D = MPRV120V025
E = MPRV120V030
F = MPRV120V040
G = MPRV120V050
H = MPRV120V065
I = MPRV120V070
J = MPRV120V075
K = MPRV120V090
L = MPRV120V100
M = MPRV120V110
N = MPRV120V125
O = MPRV120V130
P = MPRV120V135
Q = MPRV120V160



Polymeric PTC

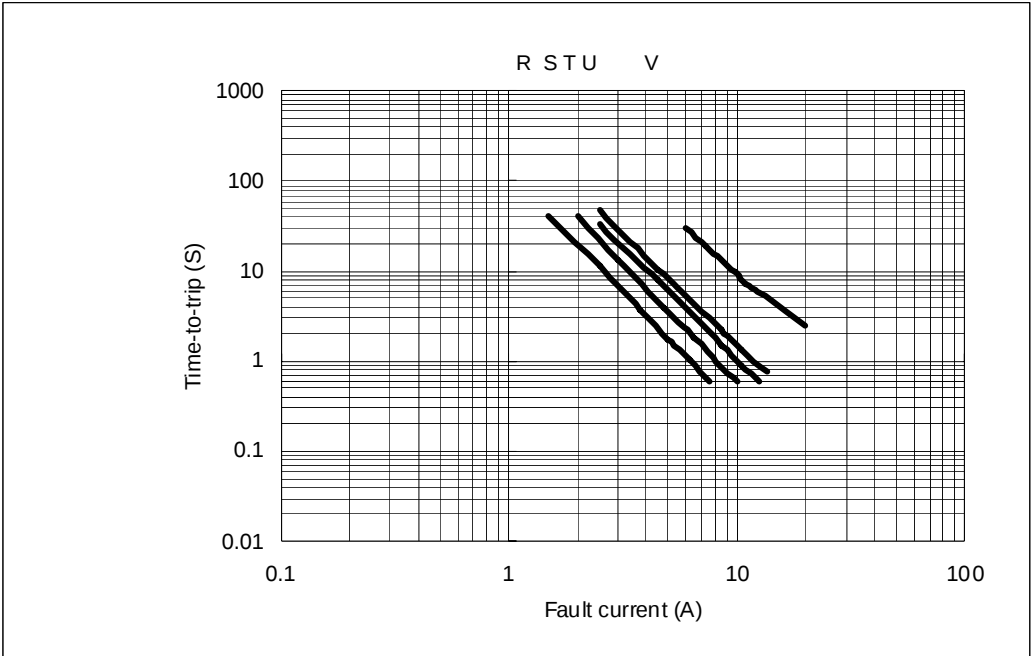


MPRV Series

MERITEK

Typical Time-To-Trip at 23°C

R = MPRV120V185
S = MPRV120V200
T = MPRV120V250
U = MPRV120V300
V = MPRV120V375





Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Max.Int Voltage	Typical Power	Resistance	
								RMIN	R1MAX
	I _H , A	I _T , A	at 5xI _H	I _{MAX} , A	V _{MAX} , VAC	V _{MAX} , VAC	P _d , W	ohms	ohms
MPRV240V005	0.05	0.12	15.0	1.0	240	265	0.70	18.50	65.00
MPRV240V008	0.08	0.19	15.0	1.2	240	265	0.80	7.40	26.00
MPRV240V012	0.12	0.30	15.0	1.2	240	265	1.00	3.00	12.00
MPRV240V016	0.16	0.37	15.0	2.0	240	265	1.40	2.50	7.80
MPRV240V025	0.25	0.56	18.5	3.5	240	265	1.50	1.30	3.80
MPRV240V033	0.33	0.74	18.5	4.5	240	265	1.70	0.83	2.60
MPRV240V040	0.40	0.90	24.0	5.5	240	265	2.00	0.60	1.90
MPRV240V055	0.55	1.25	26.0	7.0	240	265	3.40	0.45	1.45
MPRV240V075	0.75	1.50	18.0	7.5	240	265	2.60	0.32	0.84
MPRV240V100	1.00	2.00	21.0	10.0	240	265	2.90	0.22	0.58
MPRV240V125	1.25	2.50	23.0	12.5	240	265	3.30	0.17	0.44
MPRV240V200	2.00	4.00	28.0	20.0	240	265	4.50	0.09	0.22

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-minimum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at its rated current (I_{MAX}).

I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

P_d=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

R_{min}=Minimum device resistance at 23°C prior to tripping.

R1_{MAX}=Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

Termination pad materials: Pure Tin

Product Dimensions (Millimeters)

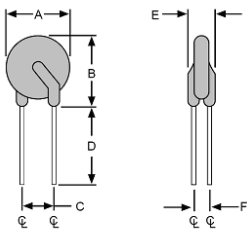


Figure 1
Lead Size: 24AWG
Ø 0.51 mm Diameter

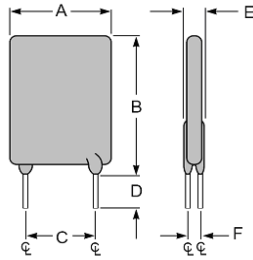


Figure 2
Lead Size: 22AWG
Ø 0.65 mm Diameter

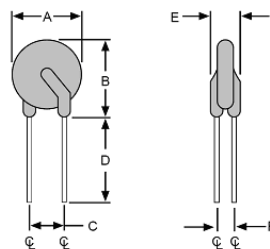


Figure 3
Lead Size: 20AWG
Ø 0.81 mm Diameter

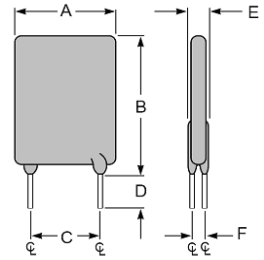


Figure 4
Lead Size: 20AWG
Ø 0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
MPRV240V005	1	8.3	10.7	5.1	7.6	3.8	1.6
MPRV240V008	1	8.3	10.7	5.1	7.6	3.8	1.6
MPRV240V012	1	8.3	10.7	5.1	7.6	3.8	1.6
MPRV240V016	1	9.9	12.5	5.1	7.6	3.8	1.6
MPRV240V025	2	9.6	17.4	5.1	7.6	3.8	1.8
MPRV240V033	2	11.4	16.5	5.1	7.6	3.8	1.8
MPRV240V040	2	11.5	19.5	5.1	7.6	3.8	1.8
MPRV240V055	3	14.0	21.7	5.1	7.6	4.1	1.9
MPRV240V075	3	11.5	23.4	5.1	7.6	4.8	1.9
MPRV240V100	4	18.7	24.4	10.2	7.6	5.1	1.9
MPRV240V125	4	21.2	27.4	10.2	7.6	5.3	1.9
MPRV240V200	3	24.9	33.8	10.2	7.6	6.1	1.9

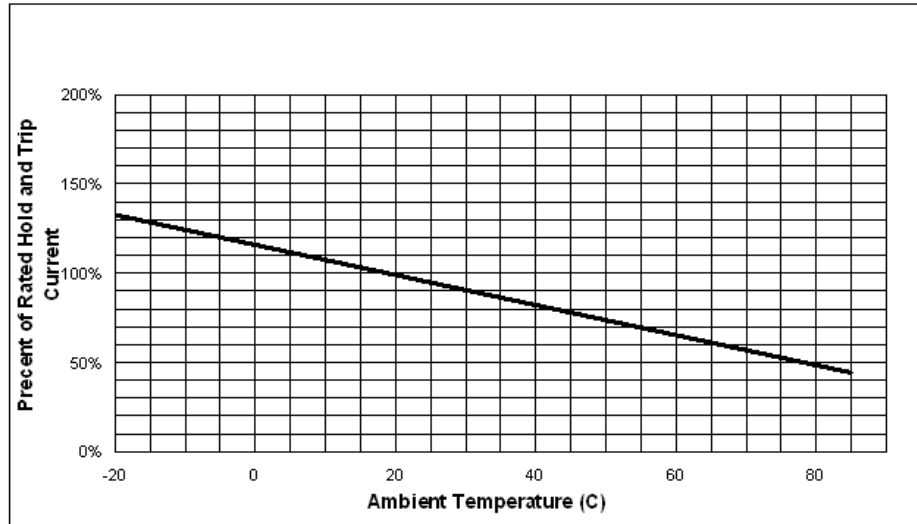
Polymeric PTC



MPRV Series

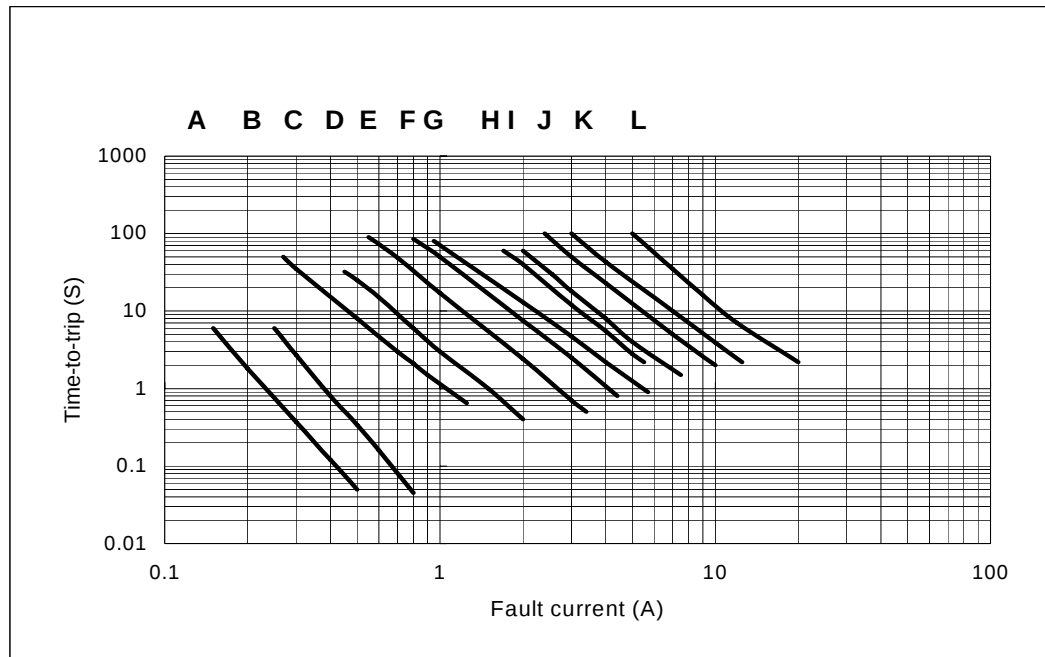
MERITEK

Thermal Derating Curve



Typical Time-To-Trip at 23°C

A= MPRV240V005
B= MPRV240V008
C= MPRV240V012
D= MPRV240V016
E= MPRV240V025
F= MPRV240V033
G= MPRV240V040
H= MPRV240V055
I= MPRV240V075
J= MPRV240V100
K= MPRV240V125
L= MPRV240V200





**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

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