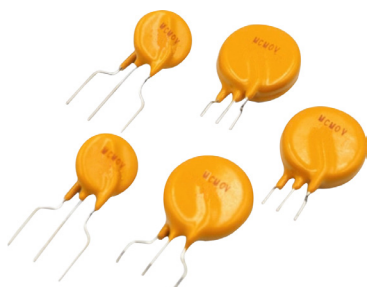


RoHS
Compliant

Applications

- LED Lighting System
- PLC network adapters
- AC Line Power Supplies
- AC/DC power supplies and Modem power supply
- White goods, appliances, industrial controls

Features

- IEC61000-4-2 – Electrostatic discharge immunity test
- IEC61000-4-4 – Electrical fast transient/burst immunity test
- IEC61000-4-5 – Surge immunity test
- Over Current Protection
- Over Voltage Protection
- Prevent thermal runaway Occurs

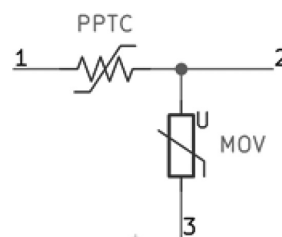
Specification

Maximum Continuous Operating Voltage : 240VAC
 Maximum Limited Duration Voltage : 400VAC~600VAC
 Maximum Limited Duration Current : 10A~40A
 Temperature Range : -40°C to 85°C

Material

Lead material : Tin plated copper, 22 AWG.
 Soldering characteristics : MIL-STD-202, Method 208E.
 Insulating coating : Flame retardant epoxy, meets UL-94V-0 requirement.

Electrical Schematic



Overcurrent (terminals 1-2) Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Time to Trip			Resistance		
			Current	Typ. Time	Max. Time	R _{MIN}	R _{MAX}	R _{1MAX}
	(A)	(A)	(A)	(Sec)	(Sec)	Ohms	Ohms	Ohms
MCMOV10271-T015	0.15	0.3	1	0.9	3	6.5	14	16
MCMOV10431-T015								
MCMOV14431-T035	0.35	0.75	3	0.5	2	1.4	2.2	2.8
MCMOV14431-T075	0.75	1.5	7	0.9	1.2	0.37	0.8	1

Overcurrent (terminals 2-3) Electrical Characteristics (23°C)

Part Number	Varistor Voltage V@1mA		DC Resistance @100V	Maximum Clamping Voltage @25A	Typical Power
	V DC	Tolerance	MΩ	V DC	Pd, W
MCMOV10271-T015	260	+14% / -7%	>10	455	0.25
MCMOV10431-T015	430	+10% / -10%		710	
MCMOV14431-T035					
MCMOV14431-T075					
					0.6

Product Dimensions

Figure 1

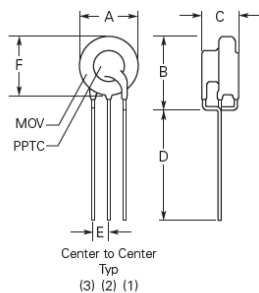


Figure 2

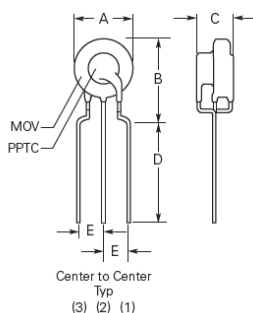
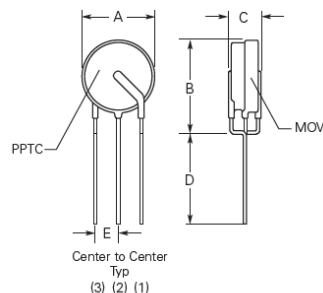


Figure 3



Part Number	Figure	A	B	C	D		E	F
		Maximum	Maximum	Maximum	Min	Max	Nominal	Maximum
MCMOV10271-T015	1	12	15	6.6	6	--	2.5	12
MCMOV10431-T015	2		17	7.4	8.5	11.5	5.1	--
MCMOV14431-T035	2	16	21		3	5		
MCMOV14431-T075	3							

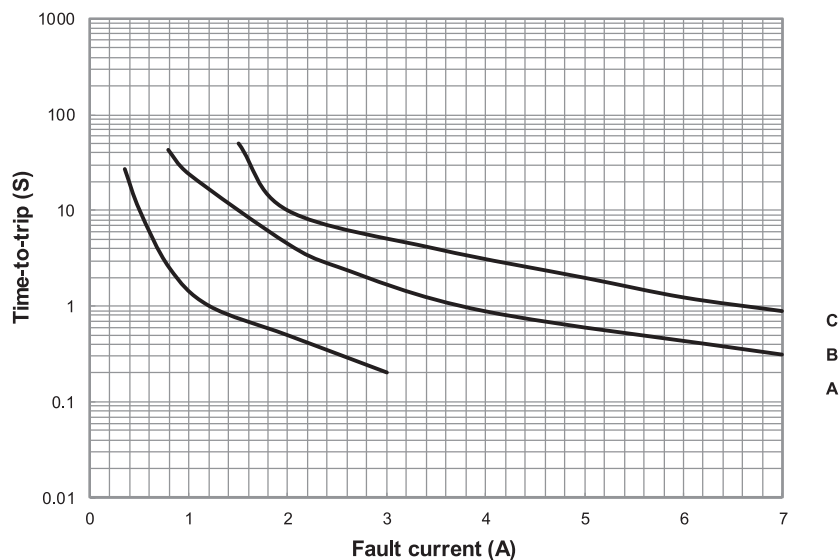
Typical Time-To-Trip at 23°C

A = MCMOV10271-T015

A = MCMOV10431-T015

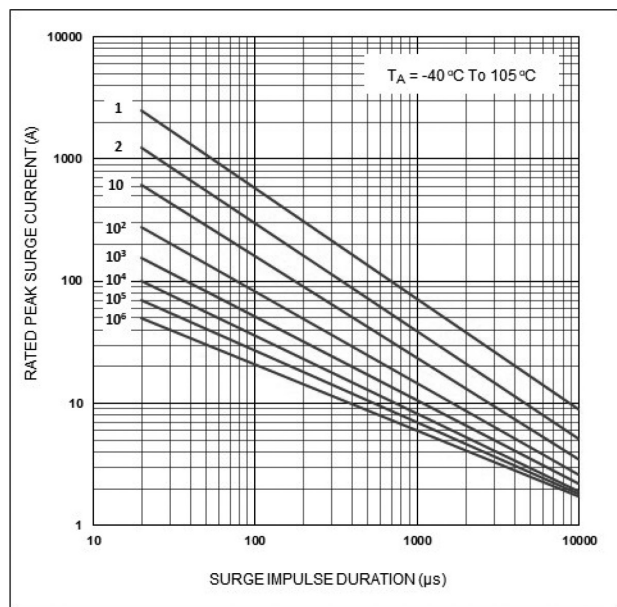
B = MCMOV14431-T035

C = MCMOV14431-T075

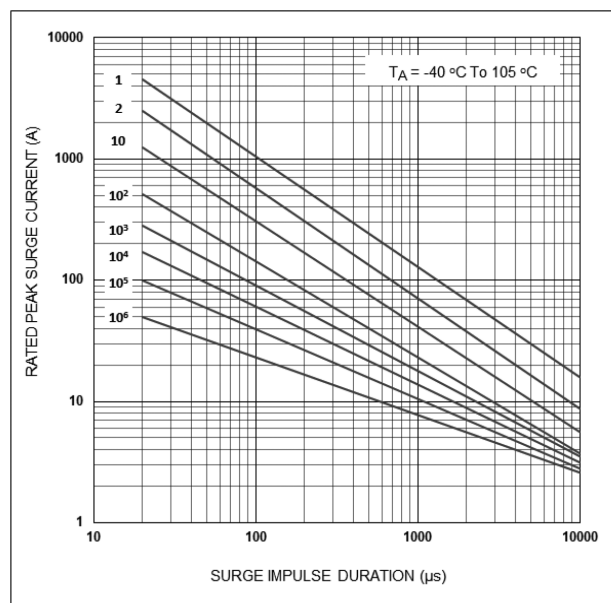


Impulse Life Time Rating Curve

MCMOV10 Series

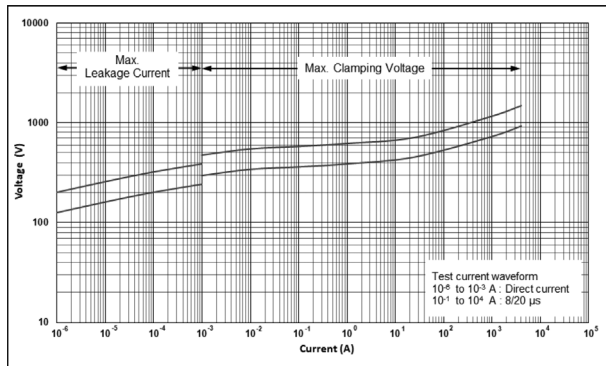


MCMOV14 Series

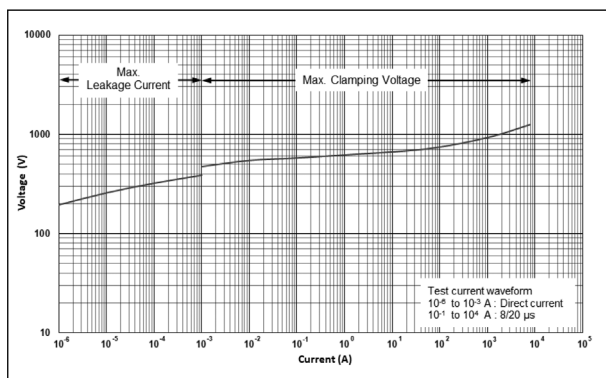


V-I Curves

- A = MCMOV10271-T015
- B = MCMOV10431-T015
- C = MCMOV14431-T035
- MCMOV14431-T075



B
A



C

Part Number Table

Description	UL Approval	Part Number
Circuit Protected MOV, 260V DC, 0.15A	No	MCMOV10271-T015
Circuit Protected MOV, 430V DC, 0.15A	No	MCMOV10431-T015
Circuit Protected MOV, 430V DC, 0.35A	Yes	MCMOV14431-T035
Circuit Protected MOV, 430V DC, 0.75A	Yes	MCMOV14431-T075

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