

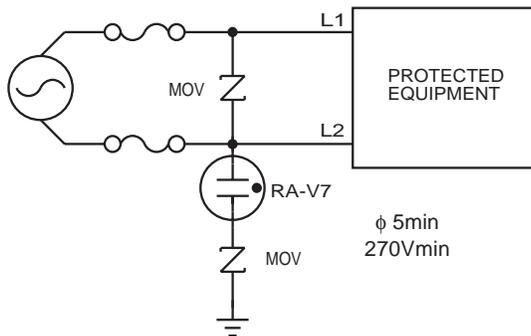
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• **RA-V7**

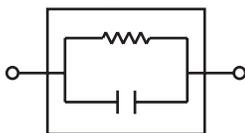
The RA-V7 Series utilizes micro-gap discharge technology, thus demonstrating extremely fast response characteristics in dark ambient conditions without the use of radioactive isotopes.

Applied as indirect lightning surge protection in the power line of equipment, this model is used with a series connected MOV between line and ground in the power line.

It may also be used within electronic circuits to protect from destructive impulse current while still permitting "Voltage Withstand Testing" without having to remove the RA-V7.



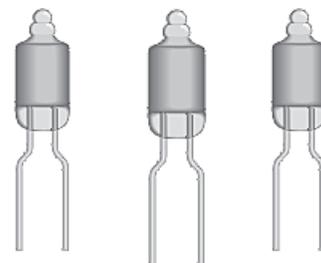
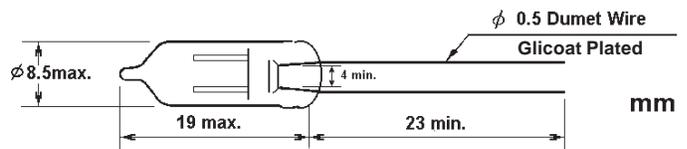
EQUIVALENT CIRCUIT DIAGRAM



Safety Agency	Standard	File No.
UL	: UL-1449 1985	E143446
UL	: UL-1414	E47474
CSA	: C22.2 No. 1 -94	LR100413
TÜV	: IEC 384-14 1993	J9551103

FEATURES:

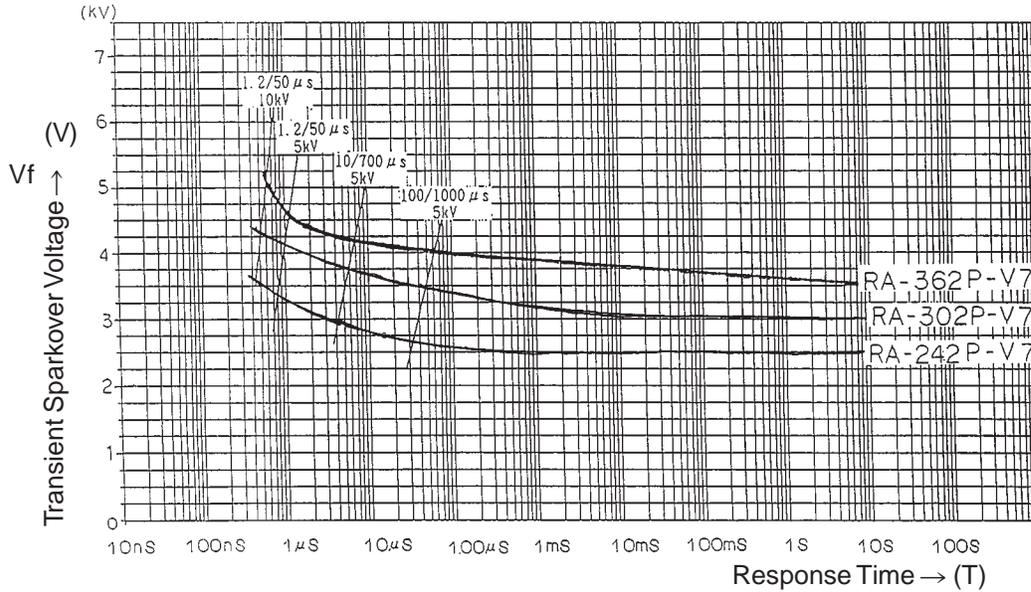
- Fast response time (see V-T Chart)
- This Surge Absorber is Bi-polar and will fail open if surge withstand capability is exceeded.
- Inter-terminal capacitance is extremely small, resulting in little influence on electronic circuits.
- High Insulation Resistance ($1 \times 10^9 \Omega$ min.)
- Excellent Surge withstand capability (300 times at 100Amp, $8 \times 20 \mu s$.)
- Small size for compact circuit design.
- Available taped for auto insertion.
Add "Y" to model number.
(RA-242M-V7-Y)



ELECTRICAL SPECIFICATIONS

Safety Standard	Model No.	D.C. Breakdown Voltage (when lighted)	Insulation Resistance	Capacitance	Peak Surge Current	Repeat Surge Times	Voltage Withstand Test
	RA-242M-V7	2400 (1920-2880)	1000 M Ω (DC 500V)	2pF (max)	2000 Amp 3 times ($8 \times 20 \mu sec$)	100 Amp 300 times ($8 \times 20 \mu sec$)	AC 1250V 3sec.
	RA-302M-V7	3000 (2400-3600)					AC 1500V 1 min.
	RA-362M-V7	3600 (2880-4320)					AC 1800V 3sec.

V - T CHARACTERISTICS



LIGHTNING SURGE PROTECT FOR AC POWER LINES

		RA - 242M - V7 <small>PLUS MOV</small>	RA - 302M - V7 <small>PLUS MOV</small>	RA - 362M - V7 <small>PLUS MOV</small>
SPECIFICATION	RATED VOLTAGE	AC125V 50/60Hz	AC250V 50/60Hz	AC250V 50/60Hz
	DC BREAKDOWN VOLTAGE	2400V ± 20%	3000V ± 20%	3600V ± 20%
	VOLTAGE WITHSTANDING TEST	AC1000V, 50/60Hz, 60S Max. AC1250V, 50/60Hz, 3S Max.	AC1500V, 50/60Hz, 60S Max.	AC1500V, 50/60Hz, 60S Max. AC1800V, 50/60Hz, 3S Max.
METHOD OF USE	CASE ① φ 1 1 PHASE 	RA ; RA - 242M - V7 Z1 ; MOV φ10 Min., 270VMin. Z2 ; MOV φ10 Min., 270VMin.	RA ; RA - 302M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin.
	CASE ② φ 1 1 PHASE 	RA ; RA - 242M - V7 Z1 ; MOV φ 10 Min., 200VMin. Z2 ; MOV φ 5 Min., 270VMin.	RA ; RA - 302M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 5 Min., 270VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 5 Min., 270VMin.
	CASE ③ φ 3 3 PHASE 	—	RA ; RA - 302M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 10 Min., 400VMin. Z3 ; MOV φ 10 Min., 400VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 10 Min., 400VMin. Z3 ; MOV φ 10 Min., 400VMin.
	CASE ④ φ 3 3 PHASE 	—	RA ; RA - 302M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 10 Min., 400VMin. Z3 ; MOV φ 10 Min., 400VMin. Z4 ; MOV φ 5 Min., 270VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ 10 Min., 400VMin. Z2 ; MOV φ 10 Min., 400VMin. Z3 ; MOV φ 10 Min., 400VMin. Z4 ; MOV φ 5 Min., 270VMin.

SURGE ABSORBERS