●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.

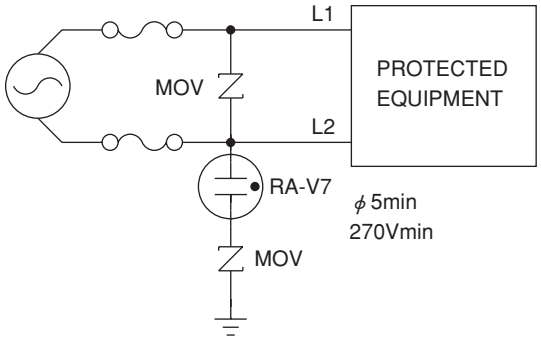
Applied as indirect lightning surge protection in the power line of equipment, this model is used with a series connected MOV between line and ground in the power line.

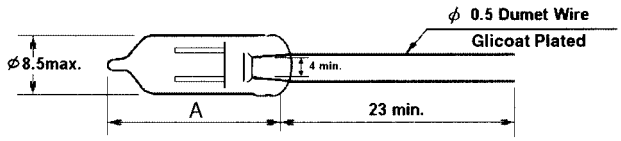
It may also be used within electronic circuits to protect from destructive impulse current while still permitting "Voltage Withstand Testing" without having to remove the RA-V7.

Safety Approvals		File No .
UL	: UL-1449	E143446
UL	: UL-1414	E47474
CSA	: C22.2 No. 1	LR105073
TÜV	: IEC 384-14	J9551103

FEATURES：

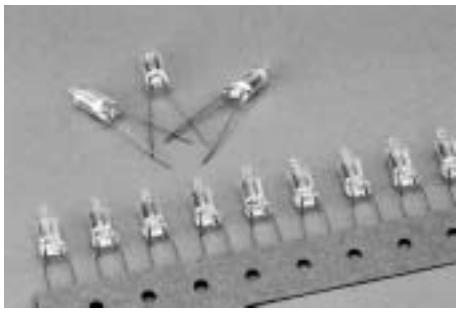
- Fast response time（see V-T Chart）
- This Surge Absorber is Bi-polar and will fail open if surge withstand capability is exceeded.
- Inter-terminal capacitance is extremely small, resulting in little influence on electronic circuits.
- High Insulation Resistance（1×10 9 min.）
- Excellent Surge withstand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





	A
RA-M-V7	19 Max
RA-MS-V7	16 Max

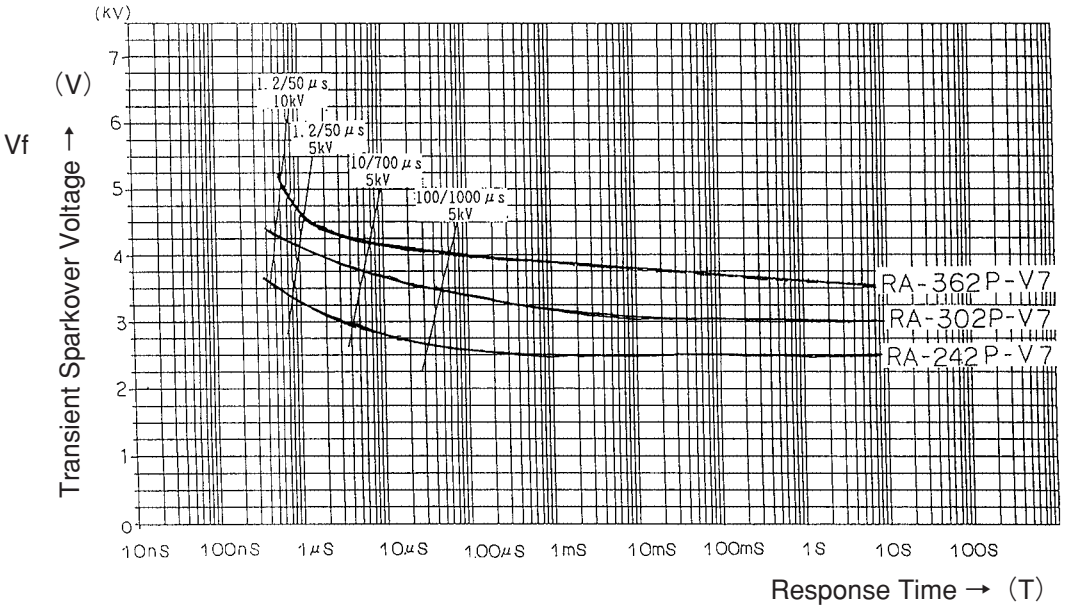
Unit：mm



SAFETY STANDARD				Type	DC spark-over Voltage (V)	Capacitance 1kHz-1.5V(pF)	Peak Surge Current 8/20 μs (A)	Impulse life test 8/20 μs 100A	Withstand Voltage Test
UL 1449	UL 1414	CSA C22.2 No.1	TÜV IEC 384-14						
○	—	—	—	RA-501M/MS-V7	500(400～600)	2.0Max.	3500	300	—
○	—	—	—	RA-601M/MS-V7	600(480～720)				—
○	—	—	—	RA-102M/MS-V7	1000(800～1200)				—
○	—	—	—	RA-152M/MS-V7	1500(1200～1800)				—
○	○	○	—	RA-242M-V7	2400(1920～2880)				AC1250V 3sec.
○	○	○	○	RA-302M-V7	3000(2400～3600)				AC1500V 60sec.
○	○	○	○	RA-362M-V7	3600(2880～4320)				AC1800V 3sec.
○	○	—	○	RA-402M-V7	4000(3200～4800)				AC2000V 60sec.
○	○	—	○	RA-452M-V7	4500(3600～5400)				AC2000V 60sec.
○	○	—	—	RA-242MS-V7	2400(1920～2880)				AC1250V 3sec.
○	○	—	○	RA-302MS-V7	3000(2400～3600)				AC1500V 60sec.
○	○	—	○	RA-362MS-V7	3600(2880～4320)				AC1800V 3sec.
○	○	—	○	RA-402MS-V7	4000(3200～4800)				AC2000V 60sec.
○	○	—	○	RA-452MS-V7	4500(3600～5400)				AC2000V 60sec.

Consult factory for non-standerd products.

V - T CHARACTERISTICS



LIGHTNING SURGE PROTECT FOR AC POWER LINES

		RA-242M-V7 PLUS MOV	RA-302M-V7 PLUS MOV	RA-362M-V7 PLUS MOV
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	CASE① φ1 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.
	CASE② φ1 1 PHASE	RA ; RA - 242M - V7 Z1 ; MOV φ10 Min., 200VMin. Z2 ; MOV φ5 Min., 270VMin.	RA ; RA - 302M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ5 Min., 400VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ5 Min., 400VMin.
	CASE③ φ3 3 PHASE	———	RA ; RA - 302M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin. Z3 ; MOV φ10 Min., 400VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin. Z3 ; MOV φ10 Min., 400VMin.
	CASE④ φ3 3 PHASE	———	RA ; RA - 302M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin. Z3 ; MOV φ10 Min., 400VMin. Z4 ; MOV φ5 Min., 400VMin.	RA ; RA - 362M - V7 Z1 ; MOV φ10 Min., 400VMin. Z2 ; MOV φ10 Min., 400VMin. Z3 ; MOV φ10 Min., 400VMin. Z4 ; MOV φ5 Min., 400VMin.