

# 05 Series to 25 Series – Through Hole MOV's

**Maximum Transient Power Dissipation Ratings (Pm)**

Series	Pm-watts	Series	Pm-watts
<b>05</b>	0.15	<b>14</b>	0.6
<b>07</b>	0.25	<b>16</b>	0.6
<b>08</b>	0.3	<b>18</b>	0.8
<b>10</b>	0.4	<b>20</b>	1.0
<b>11</b>	0.45	<b>25</b>	1.2
<b>12</b>	0.5		

**Standard Marking:**

Minimum marking information shall consist of an abbreviated style designation and, when space is available, the manufacturer's name "BUSS®".

For instance, BUSS®  
M500  
DW

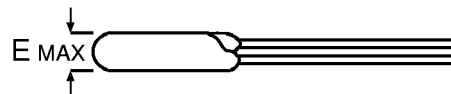
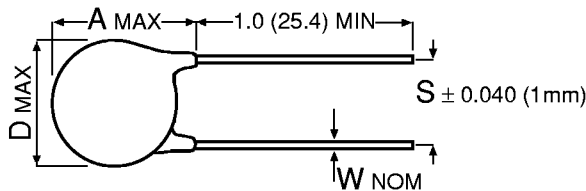
WHERE:

- M** - Represents "Metal Oxide Varistor"
- 500** - AC voltage rating code
- DW** - Energy rating code

**Standard Dimensions: inches (mm)**

Size Code	A	D	S	W	E				
					50-95VAC	120-180VAC	230-320VAC	420-580VAC	620-1000VAC
<b>05</b>	.394 (10)	.276 (7)	.197 (5)	.025 (.63)	.197 (5)	.236 (6)	.264 (6.7)	NA	NA
<b>07</b>	.472 (12)	.354 (9)	.197 (5)	.025 (.63)	.197 (5)	.236 (6)	.276 (7)	.385 (9.8)	NA
<b>08</b>	.512 (13)	.394 (10)	.197 (5)	.025 (.63)	NA	.236 (6)	.276 (7)	NA	NA
<b>10</b>	.590 (15)	.472 (12)	.296 (7.5)	.032 (.81)	.197 (5)	.236 (6)	.276 (7)	.354 (9)	NA
<b>11</b>	.650 (16.5)	.531 (13.5)	.296 (7.5)	.032 (.81)	.197 (5)	.236 (6)	NA	NA	NA
<b>12</b>	.710 (18)	.590 (15)	.296 (7.5)	.032 (.81)	.197 (5)	.236 (6)	.276 (7)	.354 (9)	NA
<b>14</b>	.770 (19.5)	.650 (16.5)	.296 (7.5)	.032 (.81)	.197 (5)	.236 (6)	.276 (7)	.354 (9)	.472 (12)
<b>16</b>	.827 (21)	.710 (18)	.296 (7.5)	.032 (.81)	NA	.236 (6)	NA	NA	NA
<b>18</b>	.905 (23)	.787 (20)	.296 (7.5)	.032 (.81)	NA	.236 (6)	.276 (7)	.354 (9)	.472 (12)
<b>20</b>	1.020 (26)	.905 (23)	.296 (7.5)	.032 (.81)	.197 (5)	.236 (6)	.276 (7)	.354 (9)	.472 (12)
<b>25</b>	1.250 (32)	1.100 (28)	.492 (12.5)	.040 (1)	NA	.236 (6)	.276 (7)	.354 (9)	.472 (12)

NA - Not available as standard size.



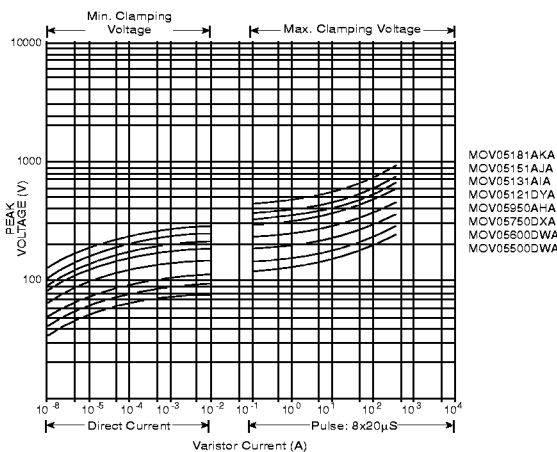
**05 Series to 25 Series – Through Hole MOV's**

**5mm Series**

Safety Recognition (footnotes)	5mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1	5	MOV05110EUA	M110-EU	11	14	0.3	100	16	20	40	1.0	2200
1	5	MOV05140EVA	M140-EV	14	18	0.4	100	20	24	48	1.0	2000
1	5	MOV05170EWA	M170-EW	17	22	0.5	100	24	30	60	1.0	1600
1	5	MOV05200EXA	M200-EX	20	26	0.6	100	30	36	73	1.0	1300
1	5	MOV05250AAA	M250-AA	25	31	0.8	100	35	43	86	1.0	750
1	5	MOV05300ACA	M300-AC	30	38	1.0	100	42	52	104	1.0	680
1	5	MOV05350ACA	M350-AC	35	45	1.0	100	50	62	123	1.0	620
1	5	MOV05400ADA	M400-AC	40	56	1.2	100	61	75	150	1.0	510
1	5	MOV05500DWA	M500-DW	50	66	2.0	400	74	90	165	5.0	510
1	5	MOV05600DWA	M600-DW	60	85	2.0	400	90	110	190	5.0	300
1	5	MOV05750DXA	M750-DX	75	102	2.5	400	108	132	245	5.0	270
1	5	MOV05950AHA	M950-AH	95	127	3.0	400	135	165	300	5.0	220
1	5	MOV05121DYA	M121-DY	120	160	3.5	400	170	207	350	5.0	110
1	4 5	MOV05131AIA	M131-AI	130	175	4.0	400	184	224	380	5.0	100
1	4 5	MOV05141DZA	M141-DZ	140	180	4.5	400	198	242	410	5.0	91
1	4 5	MOV05151AJA	M151-AJ	150	200	5.0	400	212	259	430	5.0	82
1	4 5	MOV05181AKA	M181-AK	180	230	6.0	400	255	311	510	5.0	75
1	5	MOV05211ECA	M211-EC	210	270	7.0	400	297	363	540	5.0	68
1	5	MOV05231EYA	M231-EY	230	300	7.5	400	326	397	620	5.0	62
1	5	MOV05251ALA	M251-AL	250	320	8.0	400	354	432	675	5.0	56
1	5	MOV05271EPA	M271-EP	270	350	9.0	400	382	466	745	5.0	51
1	5	MOV05301AMA	M301-AM	300	385	10.0	400	425	518	810	5.0	47
1	5	MOV05321ANA	M321-AN	320	420	11.0	400	453	553	865	5.0	43
1	5	MOV05361AOA	M361-AO	360	470	12.0	400	522	638	960	5.0	39
1	5	MOV05391APA	M391-AP	390	500	13.0	400	552	674	1040	5.0	36
1	5	MOV05421EDA	M421-ED	420	560	14.0	400	594	725	1120	5.0	33

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**05 Series Typical Voltage Current Characteristics**



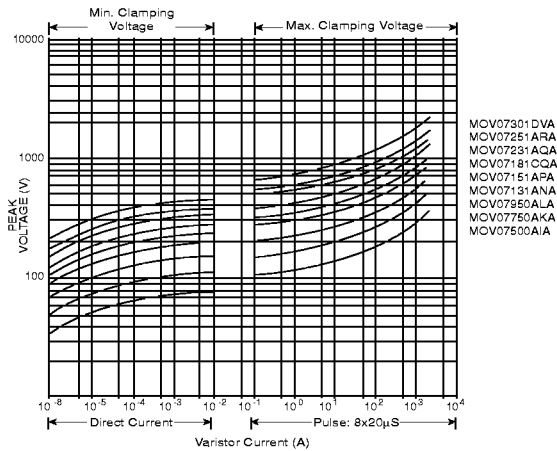
**05 Series to 25 Series – Through Hole MOV's**

**7mm Series**

Safety Recognition (footnotes)		7mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics							
				Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C			
				Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes				
				Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads			
1	5	MOV07110AAA	M110-AA	11	14	0.8	250	16	20	36	2.5	3500			
1	5	MOV07140EZA	M140-EZ	14	18	0.9	250	20	24	43	2.5	2800			
1	5	MOV07170ACA	M170-AC	17	22	1.0	250	24	30	53	2.5	2000			
1	5	MOV07200ADA	M200-AD	20	26	1.2	250	30	36	65	2.5	1500			
1	5	MOV07250AEA	M250-AE	25	31	1.5	250	35	43	77	2.5	1350			
1	5	MOV07300AFA	M300-AF	30	38	1.8	250	42	52	93	2.5	1150			
1	5	MOV07350FAA	M350-FA	35	45	2.2	250	50	62	110	2.5	950			
1	5	MOV07400DXA	M400-DX	40	56	2.5	250	61	75	135	2.5	700			
1	5	MOV07500AIA	M500-AI	50	66	4.0	1200	74	90	157	10.0	550			
1	5	MOV07600AJA	M600-AJ	60	81	5.0	1200	90	110	180	10.0	500			
1	5	MOV07750AKA	M750-AK	75	102	6.0	1200	108	132	230	10.0	450			
1	5	MOV07950ALA	M950-AL	95	127	8.0	1200	135	165	255	10.0	350			
1	2	3	5	MOV07121AMA	M121-AM	120	160	10.0	1200	170	207	320	10.0	160	
1	2	3	4	5	MOV07131ANA	M131-AN	130	175	11.0	1200	184	224	340	10.0	160
1	2	3	4	5	MOV07141AOA	M141-AO	140	180	12.0	1200	198	242	360	10.0	150
1	2	3	4	5	MOV07151APA	M151-AP	150	200	13.0	1200	212	259	395	10.0	140
1	2	3	4	5	MOV07181CQA	M181-CQ	180	230	15.0	1200	255	311	470	10.0	120
1	2	3	5	MOV07211EQA	M211-EQ	210	270	18.0	1200	297	363	540	10.0	110	
1	2	3	4	5	MOV07231AQA	M231-AQ	230	300	20.0	1200	326	397	595	10.0	110
1	2	3	4	5	MOV07251ARA	M251-AR	250	330	21.0	1200	354	432	650	10.0	100
1	2	3	4	5	MOV07271ASA	M271-AS	270	360	23.0	1200	382	466	710	10.0	91
1	2	3	4	5	MOV07301DVA	M301-DV	300	390	25.0	1200	425	518	790	10.0	82
1	2	3	5	MOV07321FCA	M321-FC	320	420	27.0	1200	453	553	850	10.0	75	
1	2	3	5	MOV07361ESA	M361-ES	360	470	28.0	1200	522	638	960	10.0	62	
1	2	3		MOV07391FDA	M371-FD	390	490	29.0	1200	530	648	1000	10.0	62	
1	2	3	5	MOV07421CSA	M421-CS	420	560	30.0	1200	594	725	1120	10.0	56	

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**07 Series Typical Voltage Current Characteristics**



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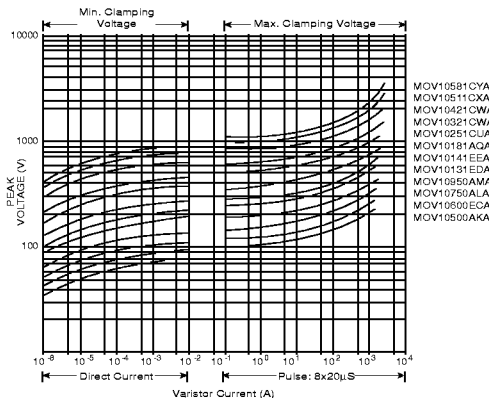
**05 Series to 25 Series – Through Hole MOV's**

**10mm Series**

Safety Recognition (footnotes)	10mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz/25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1	5	MOV10110AEA	M110-AE	11	14	1.5	500	16	20	36	5	7500
1	5	MOV10140DWA	M140-DW	14	18	2.0	500	20	24	43	5	6000
1	5	MOV10170DXA	M170-DX	17	22	2.5	500	24	30	53	5	4000
1	5	MOV10200AHA	M200-AH	20	26	3.0	500	30	36	65	5	3000
1	5	MOV10250DYA	M250-DY	25	31	3.5	500	35	43	77	5	2600
1	5	MOV10300DZA	M300-DZ	30	38	4.5	500	42	52	93	5	2200
1	5	MOV10350EAA	M350-EA	35	45	5.5	500	50	62	110	5	1800
1	5	MOV10400EBA	M400-EB	40	56	6.5	500	61	75	135	5	1600
1	5	MOV10500AKA	M500-AK	50	66	6.0	2500	74	90	147	25	1500
1	5	MOV10600ECA	M600-EC	60	81	7.0	2500	90	110	175	25	400
1	5	MOV10750ALA	M750-AL	75	102	8.0	2500	108	132	210	25	100
1	5	MOV10950AMA	M950-AM	95	127	10.0	2500	135	165	255	25	900
1 2 3	5	MOV10121APA	M121-AP	120	160	13.0	2500	170	207	320	25	360
1 2 3 4 5		MOV10131EDA	M131-ED	130	175	14.0	2500	184	224	340	25	330
1 2 3 4 5		MOV10141EEA	M141-EE	140	180	16.0	2500	198	242	360	25	310
1 2 3 4 5		MOV10151EFA	M151-EF	150	200	17.0	2500	212	259	395	25	300
1 2 3 4 5		MOV10181AQA	M181-AQ	180	230	20.0	2500	255	311	465	25	270
1 2 3	5	MOV10211CSA	M211-CS	210	270	30.0	2500	297	363	545	25	250
1 2 3 4 5		MOV10231CTA	M231-CT	230	300	35.0	2500	326	397	595	25	220
1 2 3	5	MOV10251CUA	M251-CU	250	330	40.0	2500	354	432	650	25	200
1 2 3 4 5		MOV10271EGA	M271-EG	270	360	43.0	2500	382	466	710	25	200
1 2 3 4 5		MOV10301CWA	M301-CW	300	390	45.0	2500	425	518	790	25	180
1 2 3 4 5		MOV10321CWA	M321-CW	320	420	45.0	2500	453	553	850	25	160
1 2 3	5	MOV10361CWA	M361-CW	360	470	45.0	2500	522	638	950	25	150
1	3 5	MOV10391CWA	M391-CW	390	505	45.0	2500	552	674	1025	25	150
1 2 3 4 5		MOV10421CWA	M421-CW	420	560	45.0	2500	594	725	1120	25	150
1 2 3	5	MOV10461EHA	M461-EH	460	615	50.0	2500	651	795	1240	25	120
1 2 3 4 5		MOV10481EHA	M481-EH	480	640	50.0	2500	679	829	1290	25	120
1 2 3 4 5		MOV10511CXA	M511-CX	510	675	55.0	2500	722	881	1350	25	110
1 2 3 4 5		MOV10551EIA	M551-EI	550	700	60.0	2500	778	950	1400	25	100
1 2 3 4		MOV10581CYA	M581-CY	580	735	65.0	2500	821	1002	1500	25	95
1 2 3		MOV10621CYA	M621-CY	620	825	65.0	2500	877	1071	1600	25	91
1 2 3		MOV10681CZA	M681-CZ	680	895	70.0	2500	962	1175	1650	25	82

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**10 Series Typical Voltage Current Characteristics**



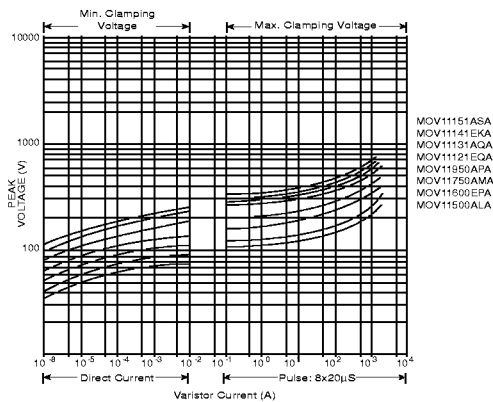
# 05 Series to 25 Series – Through Hole MOV's

## 11mm & 12mm Series

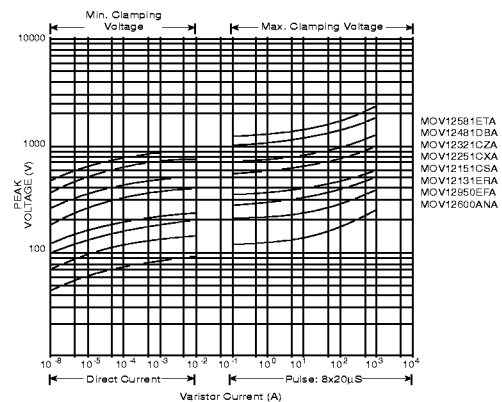
Safety Recognition (footnotes)	11 & 12mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics				
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes	
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads
1	MOV11500ALA	M500-AL	50	66	8.0	500	74	90	147	30	1800
1	MOV11600EPA	M600-EP	60	81	9.0	500	90	110	175	30	1700
1	MOV11750AMA	M750-AM	75	102	10.0	2500	08	132	210	30	1300
1	MOV11950APA	M950-AP	95	127	13.0	2500	135	165	255	30	1100
1 2 3	MOV11121EQA	M121-EQ	120	160	18.0	2500	170	207	320	30	910
1 2 3 4	MOV11131AQA	M131-AQ	130	175	20.0	2500	184	224	340	30	680
1 2 3 4	MOV11141EKA	M141-EK	140	180	22.0	2500	198	242	360	30	600
1 2 3 4	MOV11151ASA	M151-AS	150	200	23.0	2500	212	259	395	30	550
1 5	MOV12500AMA	M500-AM	50	66	10.0	700	74	90	147	40	2200
1 5	MOV12600ANA	M600-AN	60	81	11.0	700	90	110	175	40	2000
1 5	MOV12750APA	M750-AP	75	102	13.0	3500	108	132	210	40	1600
1 5	MOV12950EFA	M950-EF	95	127	17.0	3500	135	165	255	40	1300
1 2 3 5	MOV12121CRA	M121-CR	120	160	24.0	3500	170	207	320	40	560
1 2 3 4 5	MOV12131ERA	M131-ER	130	175	26.0	3500	184	224	340	40	560
1 2 3 4 5	MOV12141ESA	M141-ES	140	180	28.0	3500	198	242	360	40	510
1 2 3 4 5	MOV12151CSA	M151-CS	150	200	30.0	3500	212	259	395	40	470
1 2 3 4 5	MOV12181CTA	M181-CT	180	230	35.0	3500	255	311	465	40	430
1 2 3 4 5	MOV12231EHA	M231-EH	230	300	50.0	3500	326	397	595	40	360
1 2 3 4 5	MOV12251CXA	M251-CX	250	330	55.0	3500	354	432	650	40	320
1 2 3 4 5	MOV12271EIA	M271-EI	270	360	60.0	3500	382	466	710	40	300
1 2 3 4 5	MOV12301CYA	M301-CY	300	390	65.0	3500	425	518	790	40	270
1 2 3 4 5	MOV12321CZA	M321-CZ	320	420	70.0	3500	453	553	850	40	240
1 2 3 4 5	MOV12421CZA	M421-CZ	420	560	70.0	3500	594	725	1120	40	200
1 2 3 5	MOV12481DBA	M461-DB	480	615	80.0	3500	651	795	1200	40	200
1 2 3 4 5	MOV12511ENA	M481-EN	510	640	85.0	3500	679	829	1240	40	200
1 2 3 4 5	MOV12551DPA	M551-DP	550	700	90.0	3500	778	950	1400	40	180
1 2 3 4	MOV12581ETA	M581-ET	580	735	95.0	3500	821	1002	1500	40	160
1 2 3	MOV12621DCA	M621-DC	620	800	100.0	3500	877	1071	1500	40	150
1 2 3 4	MOV12681DQA	M681-DQ	680	860	105.0	3500	962	1175	1800	40	140

1 = UL1449 Surge Suppression    2 = UL1414 Across-The-Line    3 = CSA    4 = VDE/CECC 42000/42201    5 = UL497B Data Communication

### 11 Series Typical Voltage Current Characteristics



### 12 Series Typical Voltage Current Characteristics



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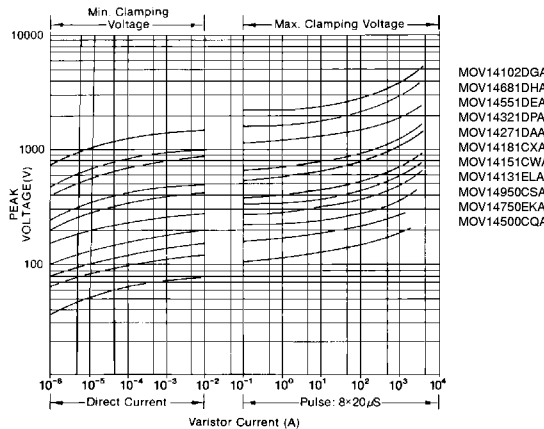
**05 Series to 25 Series – Through Hole MOV's**

**14mm Series**

Safety Recognition (footnotes)	14mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1	5	MOV14110DYA	M110-DY	11	14	3.5	1000	16	20	36	10	18000
1	5	MOV14140AIA	M140-AI	14	18	4.0	1000	20	24	43	10	15000
1	5	MOV14170AJA	M170-AJ	17	22	5.0	1000	24	30	53	10	10000
1	5	MOV14200AKA	M200-AK	20	26	6.0	1000	30	36	65	10	7500
1	5	MOV14250ECA	M250-EC	25	31	7.0	1000	35	43	77	10	6500
1	5	MOV14300EJA	M300-EJ	30	38	8.5	1000	42	52	93	10	5500
1	5	MOV14350AMA	M350-AM	35	45	10.0	1000	50	62	110	10	4500
1	5	MOV14400AOA	M400-AO	40	56	12.0	1000	61	75	135	10	3300
1	5	MOV14500CQA	M500-CQ	50	66	15.0	4500	74	90	147	50	2900
1	5	MOV14600AQA	M600-AQ	60	81	20.0	4500	90	110	175	50	2400
1	5	MOV14750EKA	M750-EK	75	102	22.0	4500	08	132	210	50	1900
1	5	MOV14950CSA	M950-CS	95	127	30.0	4500	135	165	255	50	1500
1 2 3	5	MOV14121CTA	M121-CT	120	160	35.0	4500	170	207	320	50	820
1 2 3 4	5	MOV14131ELA	M131-EL	130	175	38.0	4500	184	224	340	50	750
1 2 3 4	5	MOV14141CVA	M141-CV	140	180	42.0	4500	198	242	360	50	680
1 2 3 4	5	MOV14151CWA	M151-CW	150	200	45.0	4500	212	259	395	50	620
1 2 3 4	5	MOV14181CXA	M181-CX	180	230	55.0	4500	255	311	465	50	560
1 2 3	5	MOV14211CYA	M211-CY	210	270	65.0	4500	297	363	545	50	620
1 2 3 4	5	MOV14231CZA	M231-CZ	230	300	70.0	4500	326	397	595	50	470
1 2 3 4	5	MOV14251EOA	M251-EO	250	330	72.0	4500	354	432	650	50	430
1 2 3 4	5	MOV14271DAA	M271-DA	270	360	75.0	4500	382	466	710	50	390
1 2 3 4	5	MOV14301DBA	M301-DB	300	390	80.0	4500	425	518	790	50	360
1 2 3 4	5	MOV14321DPA	M321-DP	320	420	90.0	4500	453	553	850	50	360
1 2 3	5	MOV14361ENA	M361-EN	360	470	85.0	4500	522	638	960	50	300
1	3 5	MOV14391ENA	M391-EN	390	505	85.0	4500	552	674	1025	50	270
1	3 5	MOV14401ENA	M401-EN	400	530	85.0	4500	585	715	1070	50	270
1 2 3 4	5	MOV14421DPA	M421-DP	420	560	90.0	4500	594	725	1120	50	270
1 2 3	5	MOV14461DCA	M461-DC	460	615	100.0	4500	651	795	1240	50	230
1 2 3 4	5	MOV14481DQA	M481-DQ	480	640	105.0	4500	679	829	1240	50	220
1 2 3 4	5	MOV14511DRA	M511-DR	510	675	110.0	4500	722	881	1350	50	220
1 2 3 4	5	MOV14551DEA	M551-DE	550	700	115.0	4500	778	950	1400	50	200
1 2 3 4	5	MOV14581EMA	M581-EM	580	735	120.0	4500	821	1002	1500	50	200
1 2 3 4	5	MOV14621DFA	M621-DF	620	800	130.0	4500	877	1071	1620	50	180
1 2 3 4	5	MOV14681DHA	M681-DH	680	860	150.0	4500	962	1175	1800	50	150
1	3	MOV14751FBA	M751-FB	750	900	165.0	4500	1080	1320	2100	50	140
1 2 3 4	5	MOV14102DGA	M102-DG	1000	1200	220.0	4500	1414	1728	2700	50	130

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**14 Series Typical Voltage Current Characteristics**



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For complete specification data, call Bussmann Information Fax ~ 314.527.1450

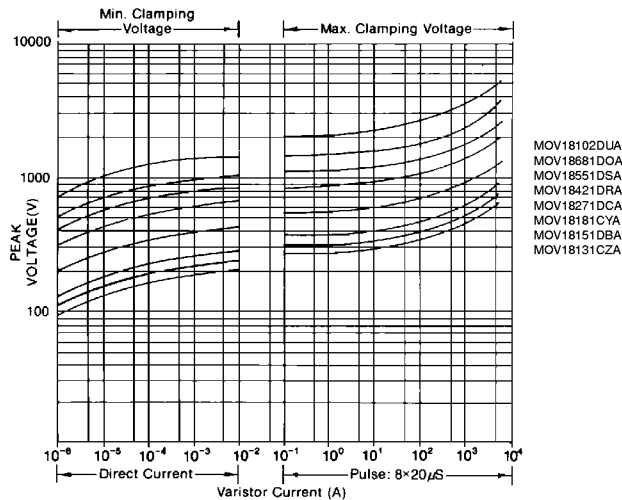
**05 Series to 25 Series – Through Hole MOV's**

**18mm Series**

Safety Recognition (footnotes)	18mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1 2 3 5	MOV18131CZA	M131-CZ	130	175	70	6500	184	224	340	100	1500	
1 2 3 5	MOV18141DAA	M141-DA	140	180	75	6500	198	242	360	100	1300	
1 2 3 5	MOV18151DBA	M151-DB	150	200	80	6500	212	259	395	100	1200	
1 2 3 4 5	MOV18181CYA	M181-CY	180	230	65	5500	255	311	465	75	1100	
1 2 3 4 5	MOV18231DBA	M231-DB	230	300	80	5500	326	397	595	75	910	
1 2 3 4 5	MOV18251DPA	M251-DP	250	330	90	5500	354	432	650	75	820	
1 2 3 4 5	MOV18271DCA	M271-DC	270	360	100	5500	382	466	710	75	750	
1 2 3 4 5	MOV18301DQA	M301-DQ	300	390	105	5500	425	518	790	75	680	
1 2 3 4 5	MOV18321DRA	M321-DC	320	420	110	5500	453	553	850	75	620	
1 3 5	MOV18361DRA	M361-DR	360	470	110	5500	522	638	950	75	510	
1 3 5	MOV18391DRA	M391-DR	390	500	110	5500	552	674	1040	75	470	
1 2 3 4 5	MOV18421DRA	M421-DR	420	560	110	5500	594	725	1120	75	430	
1 2 3 5	MOV18461EMA	M461-EM	460	615	120	5500	651	795	1200	75	390	
1 2 3 4 5	MOV18481DFA	M481-DF	480	640	130	5500	679	829	1240	75	390	
1 2 3 4 5	MOV18511DDA	M511-DD	510	675	140	5500	722	881	1350	75	360	
1 2 3 4 5	MOV18551DSA	M551-DS	550	700	145	5500	778	950	1400	75	330	
1 2 3 4	MOV18581DJA	M581-DJ	580	735	160	5500	821	1002	1500	75	300	
1 2 3 4	MOV18621DTA	M621-DT	620	800	170	5500	877	1071	1620	75	270	
1 3 4	MOV18681DOA	M681-DO	680	860	200	5500	962	1175	1800	75	250	
1 3	MOV18751DGA	M751-DG	750	900	220	5500	1080	1320	2000	75	240	
1 2 3 4	MOV18102DUA	M102-DU	1000	1200	280	5500	1414	1728	2700	75	220	

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**18 Series Typical Voltage Current Characteristics**



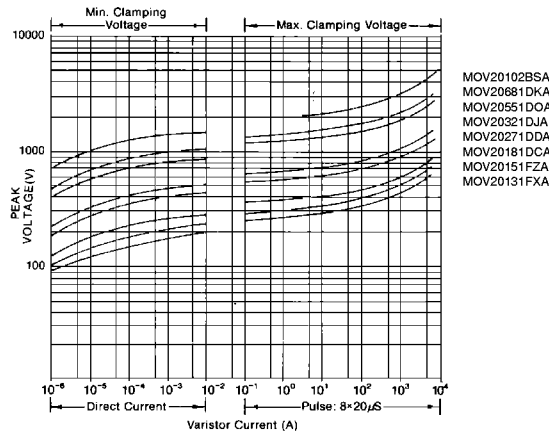
**05 Series to 25 Series – Through Hole MOV's**

**20mm Series**

Safety Recognition (footnotes)	20mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (10 x 1000µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1	5	MOV20110AMA	M110-AM	11	14	10	2000	16	20	36	20	37000
1	5	MOV20140APA	M140-AP	14	18	13	2000	20	24	43	20	30000
1	5	MOV20170CQA	M170-CQ	17	22	15	2000	24	30	53	20	22000
1	5	MOV20200AQA	M200-AQ	20	26	20	2000	30	36	65	20	17000
1	5	MOV20250CRA	M250-CR	25	31	24	2000	35	43	77	20	15000
1	5	MOV20300CSA	M300-CS	30	38	30	2000	42	52	93	20	13000
1	5	MOV20350CTA	M350-CT	35	45	35	2000	50	62	110	20	11000
1	5	MOV20400CUA	M400-CU	40	56	40	2000	61	75	135	20	7000
1	5	MOV20500CVA	M500-CV	50	65	42	6500	74	90	135	100	5500
1	5	MOV20600CWA	M600-CW	60	85	45	6500	90	110	165	100	4800
1	5	MOV20750CXA	M750-CX	75	100	55	6500	108	132	200	100	3800
1	5	MOV20950CYA	M950-CY	95	125	65	6500	135	165	250	100	3000
1 2 3	5	MOV20121CYA	M121-CY	120	160	65	6500	170	207	320	100	1800
1 2 3 4 5		MOV20131FXA	M131-FX	130	175	70	6500	184	224	340	100	1800
1 2 3 4 5		MOV20141FYA	M141-FY	140	180	75	6500	198	242	360	100	1600
1 2 3 4 5		MOV20151FZA	M151-FZ	150	200	80	6500	212	259	395	100	1500
1 2 3 4 5		MOV20181DCA	M181-DC	180	230	100	6500	255	311	465	100	1300
1 2 3	5	MOV20211DRA	M211-DR	210	270	110	6500	297	363	545	100	1200
1 2 3 4 5		MOV20231DEA	M231-DE	230	300	115	6500	326	397	595	100	1100
1 2 3 4 5		MOV20251DFA	M251-DF	250	330	130	6500	354	432	650	100	1000
1 2 3 4 5		MOV20271DDA	M271-DD	270	360	140	6500	382	466	710	100	910
1 2 3 4 5		MOV20301DHA	M301-DH	300	390	150	6500	425	518	790	100	820
1 2 3 4 5		MOV20321DJA	M321-DJ	320	420	160	6500	453	553	850	100	750
1 2 3	5	MOV20361DJA	M361-DJ	360	470	160	6500	522	638	935	100	680
1	3 5	MOV20391DHA	M391-DH	390	505	150	6500	552	674	1025	100	620
1 2 3 4 5		MOV20421DJA	M421-DJ	420	560	160	6500	594	725	1120	100	560
1 2 3	5	MOV20461DLA	M461-DL	460	615	175	6500	651	795	1240	100	420
1 2 3 4 5		MOV20481DMA	M481-DM	480	640	180	6500	679	829	1240	100	400
1 2 3 4 5		MOV20511DNA	M511-DN	510	675	190	6500	722	881	1350	100	380
1 2 3 4 5		MOV20551DOA	M551-DO	550	700	200	6500	778	950	1400	100	470
1 2 3 4		MOV20581DGA	M581-DG	580	735	220	6500	821	1002	1500	100	430
1 2 3 4		MOV20621DIA	M621-DI	620	800	230	6500	877	1071	1620	100	390
1 2 3 4		MOV20681DKA	M681-DK	680	860	260	6500	962	1175	1800	100	360
1 2 3 4		MOV20102BSA	M102-BS	1000	1200	360	6500	1414	1728	2700	100	330

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**20 Series Typical Voltage Current Characteristics**



For complete specification data, call Bussmann Information Fax ~ 314.527.1450

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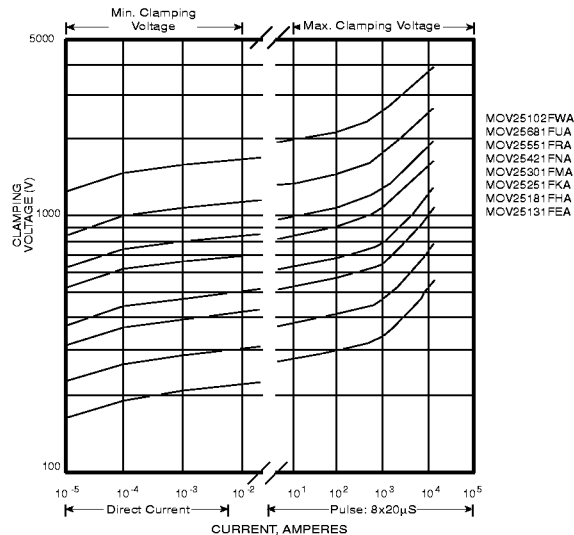
# 05 Series to 25 Series – Through Hole MOV's

**25mm Series**

Safety Recognition (footnotes)	25mm Diameter Bussmann Number	Minimum Marking	Maximum Ratings				Electrical Characteristics					
			Continuous		Transient		Varistor Voltage (@ 1.0mA DC)		Max Clamping Voltage @ Test Current (8 x 20µS)		Typical Capacitance 1KHz25°C	
			Applicable Voltage (AC)	Applicable Voltage (DC)	Energy (8 x 20µS)	Peak Current (8 x 20µS)	MIN	MAX	Volts	Amperes		
			Volts	Volts	Joules	Amperes	Volts	Volts	Volts	Amperes	Picofarads	
1 2 3 5	MOV25131FEA	M131-FE	130	175	140	13000	184	224	325	100	3300	
1 2 3 5	MOV25141FFA	M141-FF	140	180	150	13000	198	242	345	100	3100	
1 2 3 5	MOV25151FGA	M151-FG	150	200	160	13000	212	259	360	100	3000	
1 2 3 5	MOV25181FHA	M181-FH	180	230	200	13000	255	311	455	100	2400	
1 2 3 5	MOV25211FIA	M211-FI	210	270	220	13000	297	363	540	100	2100	
1 2 3 5	MOV25231FJA	M231-FJ	230	300	230	13000	326	397	590	100	1900	
1 2 3 5	MOV25251FKA	M251-FK	250	330	260	13000	354	432	620	100	1800	
1 2 3 5	MOV25271FLA	M271-FL	270	360	280	13000	382	466	680	100	1600	
1 2 3 5	MOV25301FMA	M301-FM	300	390	300	13000	425	518	760	100	1500	
1 2 3 5	MOV25321FNA	M321-FN	320	420	320	13000	453	553	810	100	1400	
1 2 3 5	MOV25361FNA	M361-FN	360	470	320	13000	522	638	932	100	1300	
1 3 5	MOV25391FNA	M391-FN	390	505	320	13000	552	674	1025	100	1200	
1 2 3 5	MOV25421FNA	M421-FN	420	560	320	13000	594	725	1060	100	1100	
1 2 3 5	MOV25461FOA	M461-FO	460	615	340	13000	651	795	1120	100	1000	
1 2 3 5	MOV25481FPA	M481-FP	480	640	360	13000	679	829	1160	100	910	
1 2 3 5	MOV25511FQA	M511-FQ	510	675	380	13000	722	881	1280	100	860	
1 2 3 5	MOV25551FRA	M551-FR	550	700	400	13000	778	950	1360	100	800	
1 3	MOV25581FSA	M581-FS	580	735	440	13000	821	1002	1430	100	750	
1 2 3	MOV25621FTA	M621-FT	620	800	460	13000	877	1071	1540	100	700	
1 3	MOV25681FUA	M681-FU	680	860	520	13000	962	1175	1700	100	650	
1 2 3	MOV25751FVA	M751-FV	750	900	560	13000	1080	1300	1880	100	510	
1 2 3	MOV25102FWA	M102-FW	1000	1200	720	13000	1414	1728	2500	100	380	

1 = UL1449 Surge Suppression      2 = UL1414 Across-The-Line      3 = CSA      4 = VDE/CECC 42000/42201      5 = UL497B Data Communication

**25 Series Typical Voltage Current Characteristics**



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