

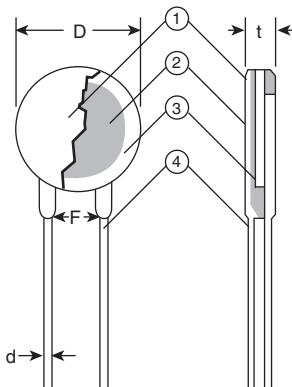
## Metal Oxide Varistor Disk Type Type NVD

ISO 9001:2008  
TS-16949

### 1. Features

- Flame retardant coating (UL94V0)
  - Excellent transient voltage suppression characteristics
  - Higher surge current
  - Wide varistor voltage
  - V-I characteristics are the same in both polarity
  - Marking: Green body color with black marking
  - VDE (CECC42000, CECC42200, CECC42201,
- IEC61051: File No. 40015637) NVD05, NVD07: 22-470V, NVD10: 22-1100V, NVD14: 22-910V
  - UL1449 (3rd Edition) recognized for products over 82V
  - UL1414, c-UL1414 (file no. E123865): NVD05, NVD07: 200-470V, NVD10: 200-1100V, NVD14, NVD20: 200-910V
  - Products with lead-free terminations meet EU RoHS requirements

### 2. Dimensions

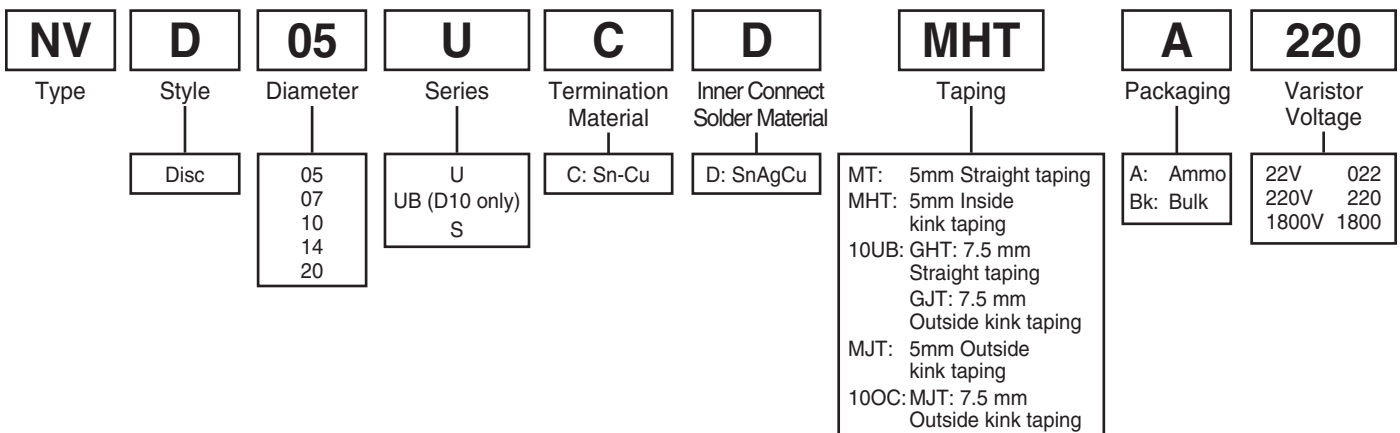


Type	Dimensions inches (mm)			
	øD (max.)*	ød	F	t (max.)*
05U	.276 - .295 (7.0 - 7.5)	.024 (0.6)	.197±.039 (5.0±1.0)	.169±.232 (4.3 - 5.9)
07U	.276 - .374 (9.0 - 9.5)			
10U	.472 - .531 (12.0 - 13.5)	.031 (0.8)	.295±.039 (7.5±1.0)	.169±.567 (4.3 - 14.4)
10UB	.472 (12.0)	.024 (0.6)	.197±.039 (5.0±1.0)	.169±.209 (4.3 - 5.3)
14U	.630 - .669 (16.0 - 17.0)	.031 (0.8)	.295±.039 (7.5±1.0)	.169±.567 (4.3 - 14.4)
20U	.91 - .94 (23.0 - 24.0)	.039 (1.0)	.394±.039 (10±1.0)	.228±.425 (5.8 - 10.8)

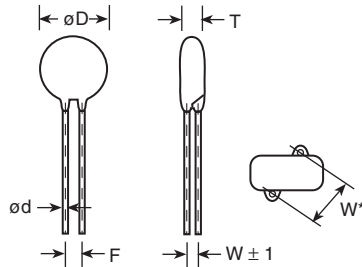
\* D max. and t ma. vary according to the varistor voltage

### 3. Ordering & Specifying Information

Type designation shall be as the following form.



## 4. Detailed Dimensions



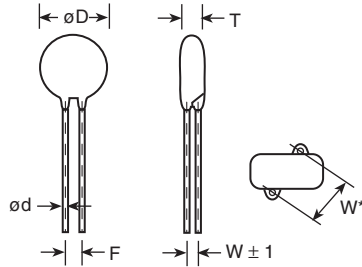
**Table 1** Dimensions in inches (mm)

Type D05U	øD max.	H max.	T max.	W ± 1			
NVD05UC022	.276 (7.0)	.394 (10.0)	.169 (4.3)	.067 (1.7)			
NVD05UC027							
NVD05UC033							
NVD05UC039			.173 (4.4)				
NVD05UC047			.181 (4.6)				
NVD05UC056			.197 (5.0)				
NVD05UC068			.209 (5.3)		.075 (1.9)		
NVD05C082			.161 (4.1)		.055 (1.4)		
NVD05UC100			.169 (4.3)		.063 (1.6)		
NVD05UC120			.177 (4.5)		.071 (1.8)		
NVD05UC150			.189 (4.8)		.083 (2.1)		
NVD05UC200			.295 (7.5)		.413 (10.5)	.177 (4.5)	.039 (1.0)
NVD05UC220						.181 (4.6)	.043 (1.1)
NVD05UC240	.185 (4.7)	.047 (1.2)					
NVD05UC270	.193 (4.9)	.059 (1.5)					
NVD05UC330	.209 (5.3)	.067 (1.7)					
NVD05UC360	.213 (5.4)	.075 (1.9)					
NVD05UC390	.220 (5.6)	.079 (2.0)					
NVD05UC430	.224 (5.7)	.087 (2.2)					
NVD05UC470	.232 (5.9)	.094 (2.4)					

**Table 1** Dimensions in inches (mm)

Type D07U	øD max.	H max.	T max.	W ± 1			
NVD07UC022	.276 (9.0)	.472 (12.0)	.169 (4.3)	.067 (1.7)			
NVD07UC027							
NVD07UC033							
NVD07UC039			.173 (4.4)				
NVD07UC047			.181 (4.6)				
NVD07UC056			.197 (5.0)				
NVD07UC068			.209 (5.3)		.075 (1.9)		
NVD07C082			.161 (4.1)		.055 (1.4)		
NVD07UC100			.169 (4.3)		.063 (1.6)		
NVD07UC120			.177 (4.5)		.071 (1.8)		
NVD07UC150			.189 (4.8)		.083 (2.1)		
NVD07UC200			.374 (9.5)		.492 (12.5)	.177 (4.5)	.039 (1.0)
NVD07UC220						.181 (4.6)	.043 (1.1)
NVD07UC240	.185 (4.7)	.047 (1.2)					
NVD07UC270	.193 (4.9)	.059 (1.5)					
NVD07UC330	.209 (5.3)	.067 (1.7)					
NVD07UC360	.213 (5.4)	.075 (1.9)					
NVD07UC390	.220 (5.6)	.079 (2.0)					
NVD07UC430	.224 (5.7)	.087 (2.2)					
NVD07UC470	.232 (5.9)	.094 (2.4)					

## 4. Detailed Dimensions (Continued)



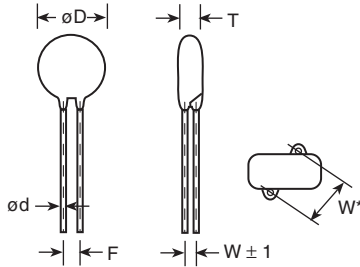
**Table 1** Dimensions in inches (mm)

Type D10U/10UB	$\phi D$ max.	H max.	T max.	$W \pm 1$	
NVD10U/10UBC022	.472 (12.0)	.591 (15.0)	.169 (4.3)	.075 (1.9)	
NVD10U/10UBC027					
NVD10U/10UBC033					
NVD10U/10UBC039			.173 (4.4)		
NVD10U/10UBC047			.185 (4.7)		
NVD10U/10UBC056			.197 (5.0)		
NVD10U/10UBC068			.209 (5.3)		.083 (2.1)
NVD10/10BC082			.177 (4.5)		.063 (1.6)
NVD10U/10UBC100			.185 (4.7)		.071 (1.8)
NVD10U/10UBC120			.193 (4.9)		.079 (2.0)
NVD10U/10UBC150			.205 (5.2)		.091 (2.3)
NVD10U/10UBC200			.185 (4.7)		.039 (1.0)
NVD10U/10UBC220			.189 (4.8)		.043 (1.1)
NVD10U/10UBC240			.197 (5.0)		.047 (1.2)
NVD10U/10UBC270			.209 (5.3)		.051 (1.3)

**Table 1** Dimensions in inches (mm)

Type D10U	$\phi D$ max.	H max.	T max.	$W \pm 1$
NVD10UC330	.492 (12.5)	.610 (15.5)	.492 (5.6)	.220 (1.6)
NVD10UC360			.224 (5.7)	.079 (2.0)
NVD10UC390			.232 (5.9)	.091 (2.3)
NVD10UC430			.240 (6.1)	.102 (2.6)
NVD10UC470			.248 (6.3)	.114 (2.9)
NVD10UC510			.264 (6.7)	.126 (3.2)
NVD10UC620			.311 (7.9)	.150 (3.8)
NVD10UC680			.327 (8.3)	.165 (4.2)
NVD10UC750			.346 (8.8)	.185 (4.7)
NVD10UC780			.350 (8.9)	.193 (4.9)
NVD10UC820			.362 (9.2)	.201 (5.1)
NVD10UC910			.382 (9.7)	.224 (5.7)
NVD10UC1100			.512 (13.0)	.630 (16.0)
NVD10UC1800	.531 (13.5)	.650 (16.5)	.567 (14.4)	*.433 (11.0 ± 2)

## 4. Detailed Dimensions (Continued)



**Table 1** Dimensions in inches (mm)

Type D14U	øD max.	H max.	T max.	W ± 1	
NVD14UC022	.630 (16.0)	.827 (21.0)	.169 (4.3)	.075 (1.9)	
NVD14UC027					
NVD14UC033					
NVD14UC039			.173 (4.4)		
NVD14UC047			.185 (4.7)		
NVD14UC056			.197 (5.0)		
NVD14UC068			.209 (5.3)		.083 (2.1)
NVD14UC082			.177 (4.5)		.063 (1.6)
NVD14UC100			.185 (4.7)		.071 (1.8)
NVD14UC120			.193 (4.9)		.079 (2.0)
NVD14UC150			.205 (5.2)		.091 (2.3)
NVD14UC200			.185 (4.7)		.039 (1.0)
NVD14UC220			.189 (4.8)		.043 (1.1)
NVD14UC240			.197 (5.0)		.047 (1.2)
NVD14UC270			.209 (5.3)		.051 (1.3)
NVD14UC330			.650 (16.5)		.846 (21.5)
NVD14UC360	.224 (5.7)	.079 (2.0)			
NVD14UC390	.220 (5.6)	.091 (2.3)			
NVD14UC430	.240 (6.1)	.102 (2.6)			

**Table 1** Dimensions in inches (mm)

Type D14U	øD max.	H max.	T max.	W ± 1
NVD14UC470	.650 (16.5)	.846 (21.5)	.248 (6.3)	.114 (2.9)
NVD14UC510			.264 (6.7)	.126 (3.2)
NVD14UC620			.311 (7.9)	.150 (3.8)
NVD14UC680			.327 (8.3)	.165 (4.2)
NVD14UC750			.346 (8.8)	.185 (4.7)
NVD14UC780			.350 (8.9)	.193 (4.9)
NVD14UC820			.362 (9.2)	.201 (5.1)
NVD14UC910			.382 (9.7)	.224 (5.7)
NVD14UC1800			.669 (17.0)	.807 (20.5)

Type D20U						
NVD20UC200	.846 (21.5)	.965 (24.5)	.205 (5.2)	.083 (2.1)		
NVD20UC220			.209 (5.3)	.087 (2.2)		
NVD20UC240			.213 (5.4)	.091 (2.3)		
NVD20UC270			.220 (5.6)	.098 (2.5)		
NVD20UC360			.240 (6.1)	.118 (3.0)		
NVD20UC390			.244 (6.2)	.122 (3.1)		
NVD20UC430			.252 (6.4)	.130 (3.3)		
NVD20UC470			.260 (6.6)	.138 (3.5)		
NVD20UC620			.886 (22.5)	1.004 (25.5)	.295 (7.5)	.173 (4.4)
NVD20UC680					.307 (7.8)	.185 (4.7)
NVD20UC750	.323 (8.2)	.201 (5.1)				
NVD20UC780	.331 (8.4)	.209 (5.3)				
NVD20UC820	.335 (8.5)	.213 (5.4)				
NVD20UC910	.354 (9.0)	.232 (5.9)				

## 5. Applications and Ratings

Type	Varistor Voltage Vc Ic = 0.1mA (V)	Maximum Allowable Voltage		NVD05UC				NVD07UC					
		a.c. r.m.s. (v)	d.c. (v)	Maximum (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage		Maximum (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage			
				E (J)	Ip (A)	V1A	V5A	E (J)	Ip (A)	V2.5A	V10A		
NVD□SCD018	16 - 22	11	14	0.3	50	40	—	—	—	—	—	—	
NVD□UCD022	20 - 27	14	18	0.5	125	48	—	1.1	250	43	—	—	
NVD□UCD027	25 - 32	17	22	0.7		60	—	1.3		53	—	—	
NVD□UCD033	30 - 39	20	26	0.8		73	—	1.6		65	—	—	
NVD□UCD039	37 - 47	25	31	0.9		86	—	1.9		77	—	—	
NVD□UCD047	45 - 54	30	38	1.1		104	—	2.3		93	—	—	
NVD□UCD056	52 - 62	35	45	1.3		123	—	2.7		110	—	—	
NVD□UCD068	60 - 76	40	56	1.6		150	—	3.3		135	—	—	
NVD□SCD082	74 - 90	50	65	1.7	200	—	145	3.5	600	—	135		
NVD□UCD100	90 - 110	60	85	3.0	600	—	175	6.0	1250	—	165	—	
NVD□UCD120	108 - 132	75	100	3.5		—	210	7.0		—	200	—	200
NVD□UCD150	135 - 165	95	125	4.5		—	260	9.0		—	250	—	250
NVD□UCD200	185 - 225	130	170	6.0		—	355	12.5		—	340	—	340
NVD□UCD220	198 - 242	140	180	6.5		—	380	13.5		—	360	—	360
NVD□UCD240	216 - 264	150	200	7.5		—	415	15.0		—	395	—	395
NVD□UCD270	247 - 303	175	225	8.0		—	475	17.0		—	455	—	455
NVD□UCD330	297 - 363	210	270	9.5		—	570	20.0		—	545	—	545
NVD□UCD360	342 - 396	230	300	11.0		—	620	23.0		—	595	—	595
NVD□UCD390	367 - 429	250	320	12.0		—	675	25.0		—	650	—	650
NVD□UCD430	407 - 473	275	350	13.5		—	745	27.5		—	710	—	710
NVD□UCD470	437 - 517	300	385	15.0	—	810	30.0	—	775	—	775		

□ Add disk diameter

Type	Varistor Voltage Vc Ic = 0.1mA (V)	Maximum Allowable Voltage		NVD10UC - NVD10UC*				NVD14UC**				NVD20UC					
		a.c. r.m.s. (v)	d.c. (v)	Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage		Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage		Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage			
				E (J)	Ip (A)	V5A	V25A	E (J)	Ip (A)	V10A	V50A	E (J)	Ip (A)	V100A			
NVD□SCD018	16 - 22	11	14	—	—	—	—	—	—	—	—	—	—	—			
NVD□UCD022	20 - 27	14	18	2.6	500	43	—	5.3	1000	43	—	—	—	—			
NVD□UCD027	25 - 32	17	22	3.2		53	—	6.5		53	—	—	—	—	—		
NVD□UCD033	30 - 39	20	26	4.0		65	—	7.9		65	—	—	—	—	—		
NVD□UCD039	37 - 47	25	31	4.4		77	—	9.4		77	—	—	—	—	—		
NVD□UCD047	45 - 54	30	38	5.7		93	—	11.0		93	—	—	—	—	—		
NVD□UCD056	52 - 62	35	45	6.7		110	—	13.0		110	—	—	—	—	—		
NVD□UCD068	60 - 76	40	56	8.2		135	—	16.0		135	—	—	—	—	—		
NVD□SCD082	74 - 90	50	65	8.0	1250	—	135	14.0	2500	—	135	—	—	—			
NVD□UCD100	90 - 110	60	85	12.0	—	165	18.0	—		165	—	—	—	—	—		
NVD□UCD120	108 - 132	75	100	14.5	2500	—	200	30.0	5000	—	200	—	—	—			
NVD□UCD150	135 - 165	95	125	18.0		—	250	37.5		—	250	—	—	—	—	—	
NVD□UCD200	185 - 225	130	170	25.0		—	340	50.0		—	340	100	—	—	340	—	
NVD□UCD220	198 - 242	140	180	27.5		—	360	55.0		—	360	110	7000	—	360	—	
NVD□UCD240	216 - 264	150	200	30.0		—	395	60.0		—	395	120		—	395	—	395
NVD□UCD270	247 - 303	175	225	35.0		—	455	70.0		—	455	135		—	455	—	455

□ Add disk diameter

\* Manufacturing range of NVD10UC is varistor voltages 22 - 270

\*\* NVD14C100 is applied

## 5. Applications and Ratings (Continued)

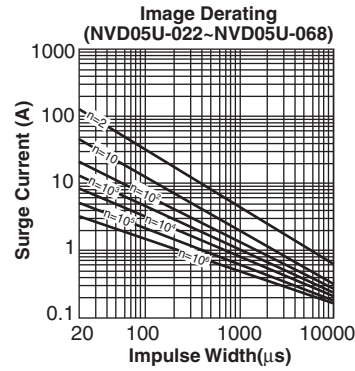
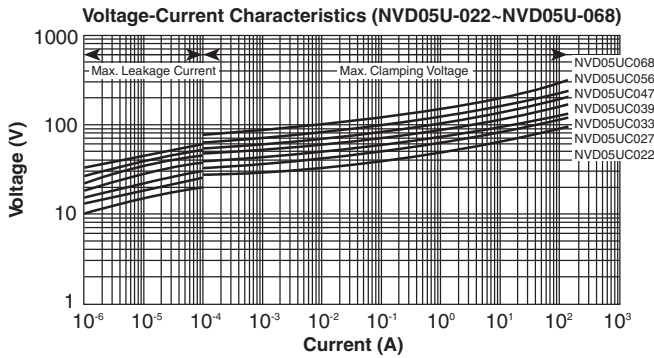
Type	Varistor Voltage Vc Ic = 0.1mA (V)	Maximum Allowable Voltage		NVD10UC - NVD10UC*			NVD14UC**					NVD20UC		
		a.c. r.m.s. (v)	d.c. (v)	Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage	Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage		Max. (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage	
				E (J)	Ip (A)	V5A	V25A	E (J)	Ip (A)	V10A	V50A	E (J)	Ip (A)	V100A
NVD □UCD330	297 - 363	210	270	42.0	2500	—	545	80.0	4500	—	545	—	6500	—
NVD □UCD360	342 - 396	230	300	45.0		—	595	90.0		—	595	180		595
NVD □UCD390	367 - 429	250	320	50.0		—	650	100.0		—	650	195		650
NVD □UCD430	407 - 473	275	350	55.0		—	710	110.0		—	710	215		710
NVD □UCD470	437 - 517	300	385	60.0		—	775	125.0		—	775	250		775
NVD □UCD510	474 - 561	320	410	67.0		—	845	136.0		—	845	—		—
NVD □UCD620	577 - 682	380	505	67.0		—	1025	136.0		—	1025	273		1025
NVD □UCD680	637 - 748	420	560	67.0		—	1120	136.0		—	1120	273		1120
NVD □UCD750	697 - 825	460	615	70.0		—	1240	150.0		—	1240	300		1240
NVD □UCD780	737 - 858	485	640	70.0		—	1290	150.0		—	1290	300		1290
NVD □UCD820	767 - 902	510	670	80.0		—	1355	165.0		—	1355	325		1355
NVD □UCD910	857 - 1000	550	745	90.0		—	1500	180.0		—	1500	360		1500
NVD □UCD1100	1070 - 1210	680	895	110.0		—	1815	—		—	—	—		—
NVD □UCD1800	1700 - 1980	1000	1465	183.0		—	2970	360.0		—	2970	—		—

□ Add disk diameter

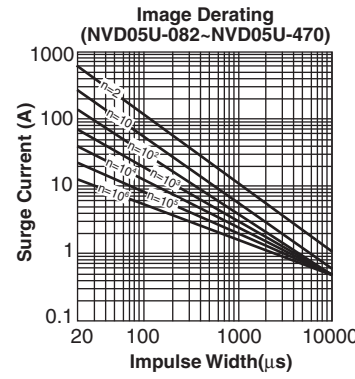
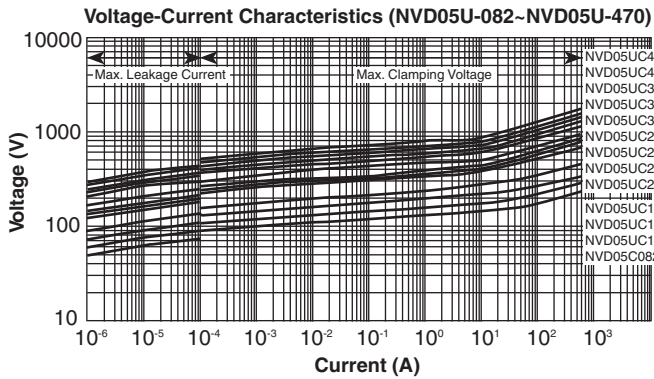
\* Manufacturing range of NVD10UC is varistor voltages 22 - 270

\*\* NVD14C100 is applied

**6. Typical Characteristics (Ta = +25°C) D05U**

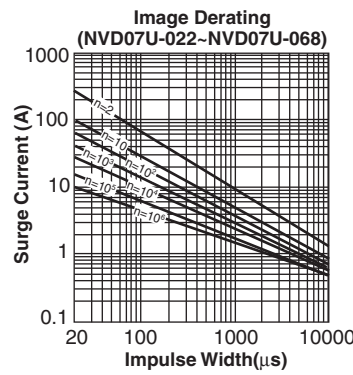
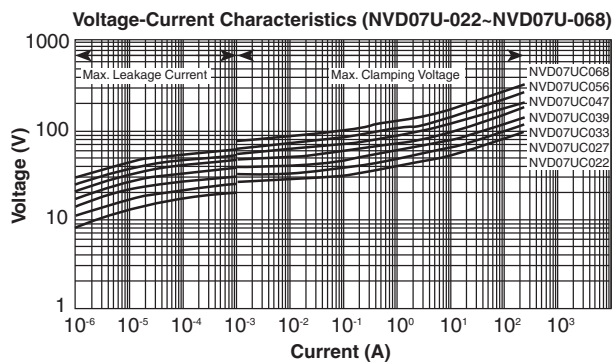


Surge current is related to impulse width and its repetition times.

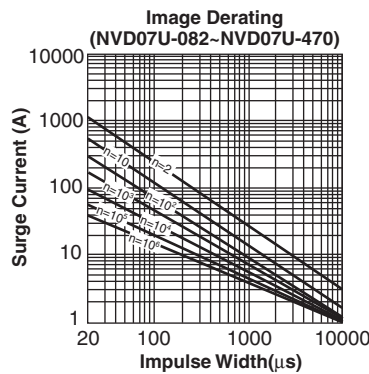
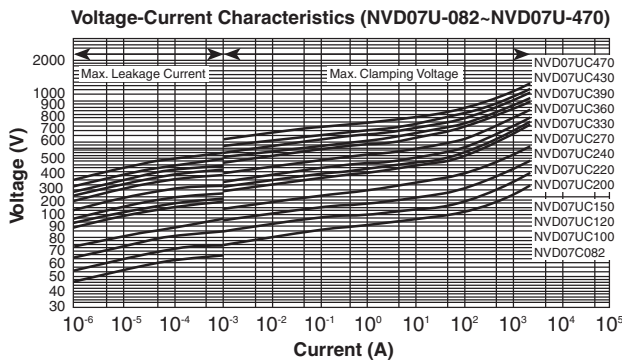


Surge current is related to impulse width and its repetition times.

**Typical Characteristics (Ta = +25°C) D07U**



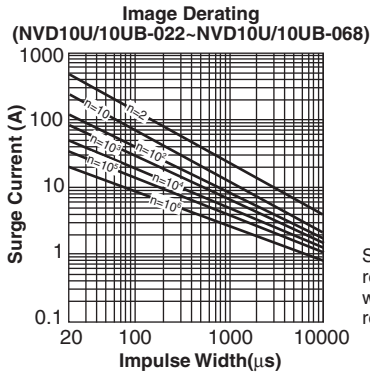
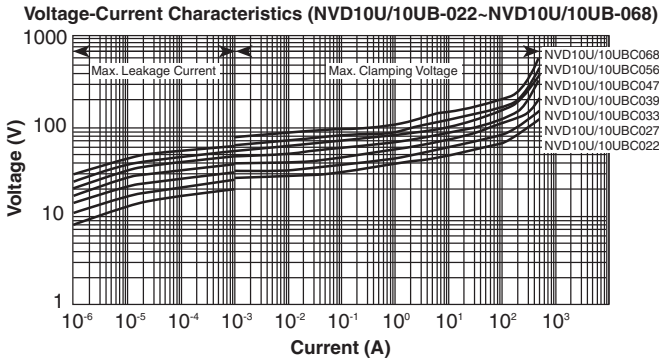
Surge current is related to impulse width and its repetition times.



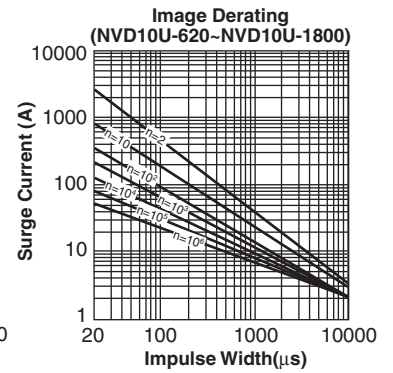
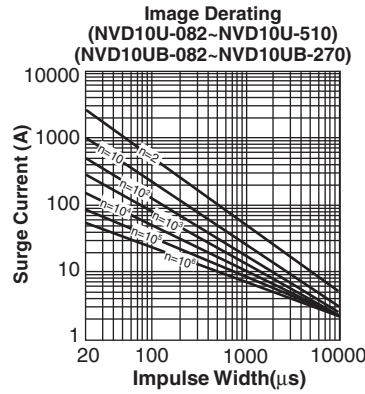
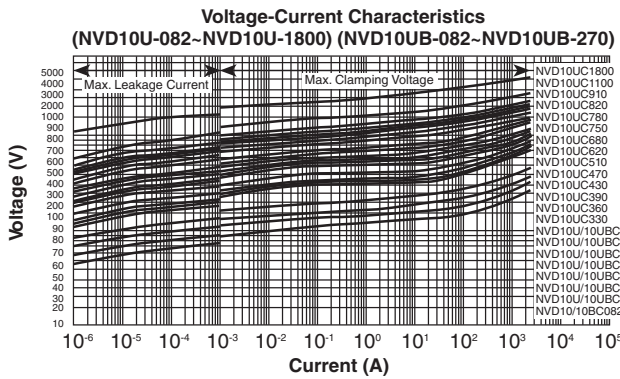
Surge current is related to impulse width and its repetition times.



**6. Typical Characteristics (Ta = +25°C) D10U/10UB**

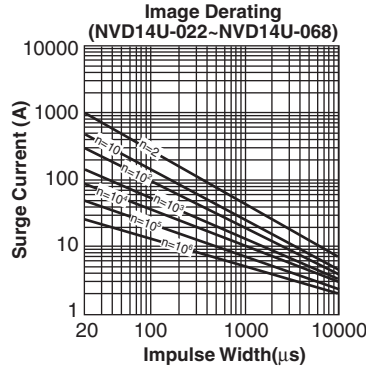
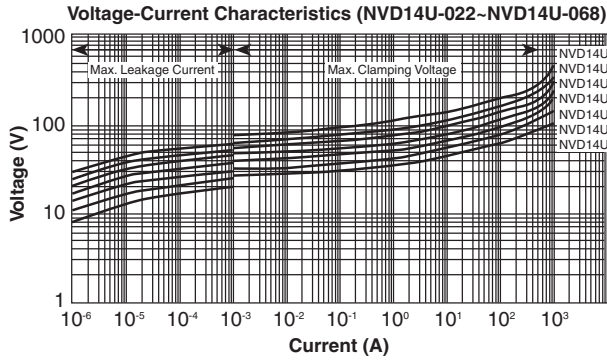


Surge current is related to impulse width and its repetition times.

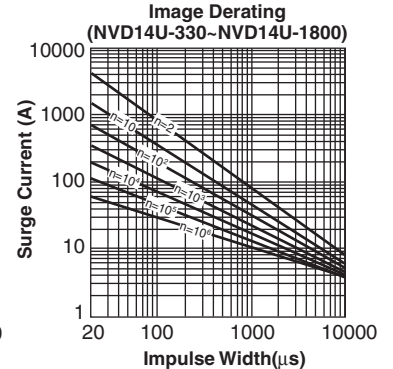
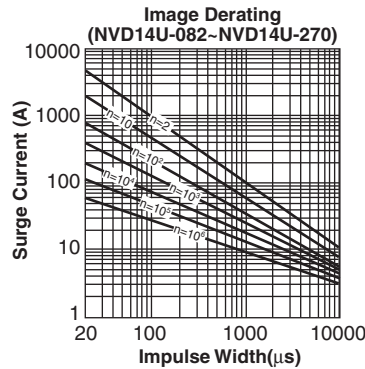
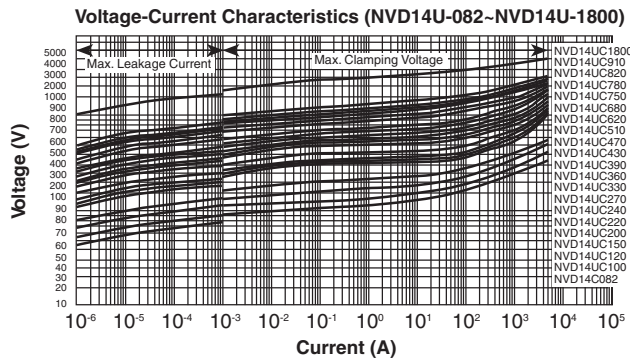




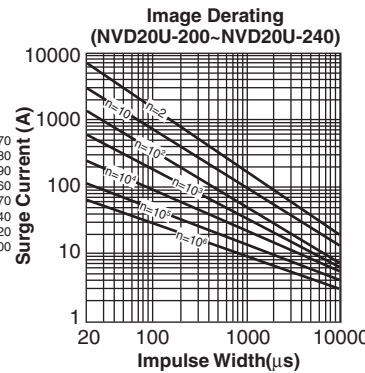
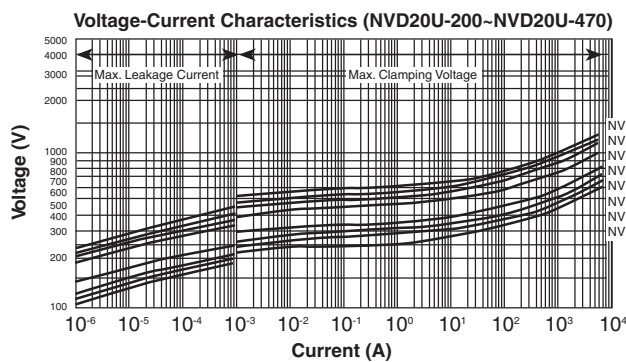
**6. Typical Characteristics (Ta = +25°C) D14U**



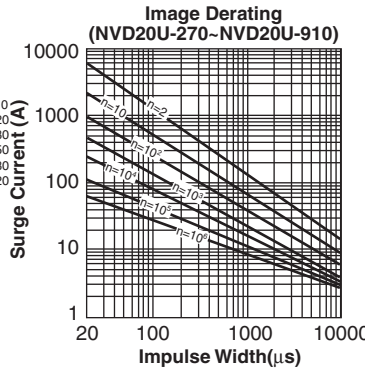
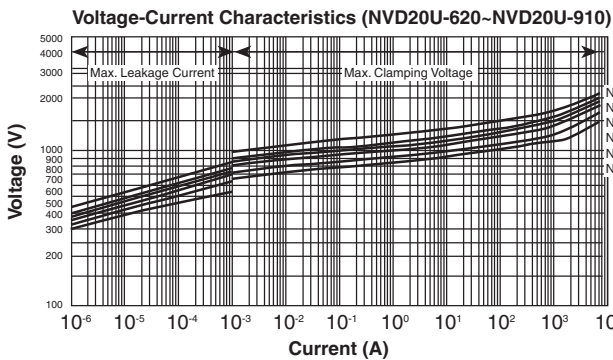
Surge current is related to impulse width and its repetition times.



**6. Typical Characteristics (Ta = +25°C) D20U**



Surge current is related to impulse width and its repetition times.



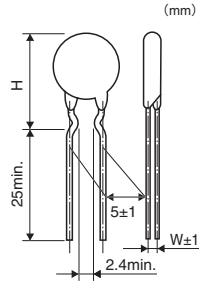
Surge current is related to impulse width and its repetition times.

## 7. Packaging

### MH Style

Type	Varistor Voltage	H Max. (mm)	Qty. /bag (pcs)	Weight g/100pcs
NVD05UCDMH	18-470V	13.5	200	30-80
NVD07UCDMH	18-470V	14.5	100	90-140

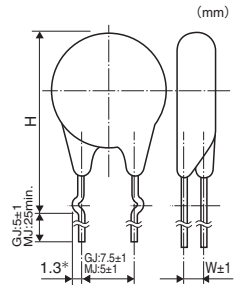
Varistor Voltage (V)	W	Varistor Voltage (V)	W
22-56	1.7	240	1.2
68	1.9	270	1.5
82	1.0	330	1.7
100	1.6	360	1.9
120	1.8	390	2.0
150	2.1	430	2.2
200	1.0	470	2.4
220	1.1		



### GJ, MJ Style

Type	Varistor Voltage	H Max. (mm)	Qty. /bag (pcs)	Weight g/100pcs
NVD10UCDGJ	22-470V	17.0	100	180-500
NVD14UCDGJ	22-390V	23.5	100	270-760
	430-470V	23.5	50	270-760
NVD05UCDMJ	22-470V	13.0	200	30-80
NVD07UCDMJ	22-470V	14.5	100	90-140
NVD10UCDMJ	22-270V	17.5	100	180-220

Varistor Voltage (V)	W (mm)				Varistor Voltage (V)	W (mm)			
	D05	D07	D10	D14		D05	D07	D10	D14
22-56	1.7	1.7	1.9	1.9	240	1.2	1.2	1.2	1.2
68	1.9	1.9	2.1	2.1	270	0.9	0.9	1.3	1.3
82	1.0	1.0	1.0	1.0	330	1.1	1.1	1.6	1.6
100	1.6	1.6	1.8	1.1	360	1.2	1.2	2.0	2.0
120	1.8	1.8	2.0	2.0	390	1.3	1.3	2.3	2.3
150	2.1	2.1	2.3	2.3	430	1.5	1.5	2.6	2.6
200	1.0	1.0	1.0	1.0	470	1.6	1.6	2.9	2.9
220	1.1	1.1	1.1	1.1					

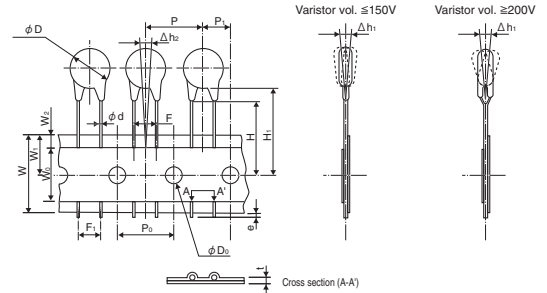


### MT Style

Type	Varistor Voltage (V)	ø Dmax. (mm)	ø d (mm)	F (mm)	Pkg. AMMO (pcs)	Weight g/AMMO
NVD05UCDMT	22-47V	7.0	0.6	5±1	2000	1240-1640
	56, 68V	7.0	0.6	5±1	1500	1260
	82-150V	7.0	0.6	5±1	2000	1440
NVD07UCDMT	200-470V	7.5	0.6	5±1	1000	790-990
	22-47V	9.0	0.6	5±1	2000	2040-2440
	56, 68V	9.0	0.6	5±1	1500	1860
	82-150V	9.0	0.6	5±1	2000	2040
NVD10UBCDMT	200-470V	9.5	0.6	5±1	1000	1190-1590
	22-150V	12.0	0.6	5±1	1000	1990-2390
	200, 220V	12.0	0.6	5±1	1000	2290
	240, 270V	12.0	0.6	5±1	500	1270

Type	Dimension	KOA Type	Dimension
øD	*	W <sub>2</sub>	3 Max.
ød	*	F	*
D <sub>0</sub>	4.0±0.2	F <sub>1</sub>	(5)
P	12.7±1.0	H	(17)
P <sub>0</sub>	12.7±0.3	H <sub>1</sub>	20 <sup>+1.5</sup> <sub>0</sub>
P <sub>1</sub>	6.35±1.3	Δh <sub>1</sub>	0±2.0
W	18.0 <sup>+1</sup> <sub>0.5</sub>	Δh <sub>2</sub>	0±1.3
W <sub>0</sub>	15	t	0.6±0.3
W <sub>1</sub>	9.0±0.5	e	less than 1.0

\* Refer to the following lists for øD, outside dia. of product, ød, lead dia. and F, distance between leads.

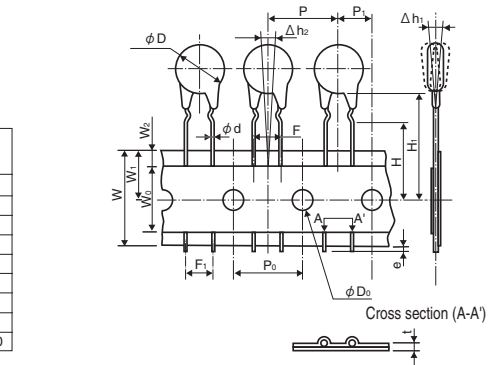


### GHT Style

Type	Varistor Voltage (V)	ø Dmax. (mm)	ø d (mm)	F (mm)	Pkg. AMMO (pcs)	Weight g/AMMO
NVD10UCDGHT	22-150V	12.0	0.8	7.5±1	2000	1980-2390
	200, 220V	12.0	0.8	7.5±1	1000	2280
	240, 270V	12.0	0.8	7.5±1	500	1260
	330-470V	12.5	0.8	7.5±1	500	1410-1660

Type	Dimension	KOA Type	Dimension
øD	*	W <sub>2</sub>	3 Max.
ød	0.6	F	5.0±1.0
D <sub>0</sub>	4.0±0.2	F <sub>1</sub>	(5)
P	12.7±1.0	H	16±0.5
P <sub>0</sub>	12.7±0.3	H <sub>1</sub>	(20)
P <sub>1</sub>	6.35±1.3	Δh <sub>1</sub>	0±2.0
W	18.0 <sup>+1</sup> <sub>0.5</sub>	Δh <sub>2</sub>	0±1.3
W <sub>0</sub>	15	t	0.6±0.3
W <sub>1</sub>	9.0±0.5	e	less than 1.0

\* Refer to the following list for øD, outside dia.

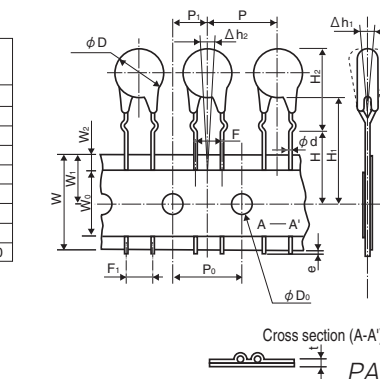


### MHT Style

Type	Varistor Voltage (V)	ø Dmax. (mm)	ø d (mm)	F (mm)	Pkg. AMMO (pcs)	Weight g/AMMO
NVD05UCDMHT	22-47V	7.0	0.6	5.0±1	2000	1270-1670
	56, 68V	7.0	0.6	5.0±1	1500	1280
	82-150V	7.0	0.6	5.0±1	2000	1470
NVD07UCDMHT	200-470V	7.5	0.6	5.0±1	1000	800-1000
	22-47V	9.0	0.6	5.0±1	2000	2070-2470
	56, 68V	9.0	0.6	5.0±1	1500	1890
	82-150V	9.0	0.6	5.0±1	2000	2070
NVD10UBCDMHT	200-470V	9.5	0.6	5.0±1	1000	1200-1600
	22-220V	12.0	0.6	5.0±1	1000	2010-2410
	240, 270V	12.0	0.6	5.0±1	500	1280

Type	Dimension	KOA Type	Dimension
øD	*	W <sub>2</sub>	3 Max.
ød	*	F	*
D <sub>0</sub>	4.0±0.2	F <sub>1</sub>	(5)
P	12.7±1.0	H	16±0.5
P <sub>0</sub>	12.7±0.3	H <sub>1</sub>	(20)
P <sub>1</sub>	6.35±1.3	Δh <sub>1</sub>	0±2.0
W	18.0 <sup>+1</sup> <sub>0.5</sub>	Δh <sub>2</sub>	0±1.3
W <sub>0</sub>	15	t	0.6±0.3
W <sub>1</sub>	9.0±0.5	e	less than 1.0

\* Refer to the following list for øD, outside dia.



### GJT, MJT Style

Type	Varistor Voltage (V)	ø Dmax. (mm)	ø d (mm)	F (mm)	H <sub>2</sub> Max. (mm)	Pkg. AMMO (pcs)	Weight g/AMMO
NVD10UCDGJT	22-220V	12.0	0.8	7.5±1	—	1000	2010-2410
	240, 270V	12.0	0.8	7.5±1	—	500	1280
	330-470V	12.5	0.8	7.5±1	—	500	1430-1680
NVD05UCDMJT	22-47V	7.0	0.6	5±1	13.0	2000	1270-1670
	56, 68V	7.0	0.6	5±1	13.0	1500	1280
	100, 120V	7.0	0.6	5±1	13.0	2000	1470
	150V	7.5	0.6	5±1	13.0	2000	1470
NVD07UCDMJT	200-470V	7.5	0.6	5±1	13.0	1000	800-1000
	22-47V	9.0	0.6	5±1	14.5	2000	2070-2470
	56, 68V	9.0	0.6	5±1	14.5	1500	1890
	100, 120V	9.0	0.6	5±1	14.5	2000	2070
	150V	9.5	0.6	5±1	14.5	2000	2070
NVD10UBCDMJT	200, 470V	9.5	0.6	5±1	14.5	1000	1200-1600
	22-220V	12.0	0.6	5±1	17.5	1000	2010-2410
	240-270V	12.0	0.6	5±1	17.5	500	1280

## 8. Packaging Quantity

Series D05U	Quantity
NVD05U-022 ~ NVD05U-047	2,000 pcs
NVD05U-056, NVD05U-068	1,500 pcs
NVD05U-082 ~ NVD05U-150	2,000 pcs
NVD05U-200 ~ NVD05U-470	1,000 pcs

Series D07U	Quantity
NVD07U-022 ~ NVD07U-047	2,000 pcs
NVD07U-056, NVD07U-068	1,500 pcs
NVD07U-082 ~ NVD07U-150	2,000 pcs
NVD07U-200 ~ NVD07U-470	1,000 pcs

Series D10U/10UB	Quantity
NVD10U-022 ~ NVD10U-150	1,000 pcs
NVD10U-200 • NVD10U-220	1,000 pcs
NVD10U-240 ~ NVD10U-470	500 pcs
NVD10UB-022 ~ NVD10UB-150	1,000 pcs
NVD10UB-200 • NVD10UB-220	1,000 pcs
NVD10UB-240 • NVD10UB-270	500 pcs

Series D14U	Quantity
NVD14U-022 ~ NVD14U-390	100 pcs/bulk
NVD14U-430 ~ NVD14U-1800	50 pcs/bulk

Series D20U	Quantity
NVD20U-200 ~ NVD20U-910	50 pcs/bulk