



Radial Leaded Metal Oxide Varistors

NVD Series Specifications



Part Number Determination

NVD05UCMHTA220							
NV	D	05	U	C	MHT	A	220
Type	Style	Diameter	Series	Termination Material	Taping	Packaging	Varistor Voltage
NVD = Leaded Metal Oxide Varistor	Disc	05 07 10 14 20	U UB (D10 only) S: Standard type	C: Sn-Cu	MT: 5mm straight taping MHT: 5mm inside kink taping 10UB: GHT: 7.5mm straight taping GJT: 7.5mm outside kink taping MJT: 5mm outside kink taping 10UC: MJT: 7.5mm outside kink taping	A: Ammo BK: Bulk	022=22V 220=220V 1800=1800V

Electrical Characteristics

Type	Varistor Voltage Vc Lc = 0.1mA (V)	Maximum Allowable Voltage		NVD05UC				NVD07UC			
		a.c. r.m.s. (V)	d.c. (V)	Max. (2rms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage		Max (2ms) Energy	Max. Peak Current (2 pulses)	Clamping Voltage	
				E(J)	Ip (A)	V1a	Vsa	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	150	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		73	---
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
NVD*UCD150	135 - 165	95	125	4.5		---	260	9.0		---	250
NVD*UCD200	185 - 225	130	170	6.0		---	355	12.5		---	340
NVD*UCD220	198 - 242	140	180	6.5		---	380	13.5		---	360
NVD*UCD240	216 - 264	150	200	7.5		---	415	15.0		---	395
NVD*UCD270	247 - 303	175	225	8.0		---	475	17.0		---	455
NVD*UCD330	297 - 363	210	270	9.5		---	570	20.0		---	545
NVD*UCD360	342 - 396	230	300	11.0		---	620	23.0		---	595
NVD*UCD390	367 - 429	250	320	12.0		---	675	25.0		---	650
NVD*UCD430	407 - 473	275	350	13.5		---	745	37.5		---	710
NVD*UCD470	437 - 517	300	385	15.0	---	810	30.0	---	775		

(specifications continued on following pages)



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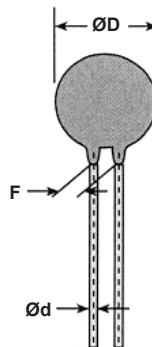


Electrical Characteristics NVD Series Specifications

Type	Varistor Voltage		Maximum Allowable Voltage		NVD10UC - NVD10UBC*				NVD14UC**				NVD20UC				
	Vc Lc = 0.1mA (V)	a.c. r.m.s. (V)	d.c. (V)	Max. (2rms) 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	---	500	---	---	---	1000	---	---	---	---	---			
NVD*UCD022	20 - 27	14	18	2.6		43	---	5.3		---	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		---	73	---	---	---	---		
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	7000	340	---	
NVD*UCD220	198 - 242	140	180	27.5		---	360	55.0		---	---	360	110		---	360	---
NVD*UCD240	216 - 264	150	200	30.0		---	395	60.0		---	---	395	120		---	395	---
NVD*UCD270	247 - 303	175	225	35.0		---	455	70.0		---	---	455	135	---	455	---	
NVD*UCD330	297 - 363	210	270	42.0		4500	---	545		80.0	6500	---	545	---	---	---	
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*SCD510	474 - 561	320	410	67.0			---	845	136.0	---		---	845	---	---	---	---
NVD*UCD620	577 - 682	380	505	67.0			---	1025	136.0	---		---	1025	273	6500	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	---	---	---	---			

Package Dimensions in(mm)

Series	ØD	Ød	F
05U	0.276 - 0.295 (7.0 - 7.5)	0.024 (0.6)	0.197±0.039 (5.0±1.0)
07U	0.276 - 0.374 (9.0 - 9.5)		
10U	0.472 - 0.531 (12.0 - 13.5)	0.031 (0.8)	0.295±0.039 (7.5±1.0)
10UB	0.472 (12.0)	0.024 (0.6)	0.197±0.039 (5.0±1.0)
14U	0.630 - 0.669 (16.0 - 17.0)	0.031 (0.8)	0.295±0.039 (7.5±1.0)
20U	0.846±0.886 (21.5±22.5)	0.039 (1.0)	0.394±0.039 (10±1.0)



Special order item,
1,000 piece minimum buy