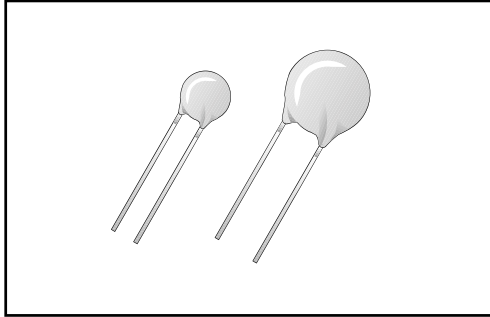


type JVR


A broad range of voltage dependant, symmetrical, metal oxide semiconductor devices (varistors) designed to protect equipment against transient voltage spikes. Connected directly across the supply rails, they offer a convenient and simple solution to transient suppression. Epoxy coated disc construction with radial leads crimped to provide an in-line with body footprint. A varistor remains high impedance (non-operative) during normal standby use. When a voltage spike is encountered the impedance rapidly drops to a very low level, clamping the transient voltage to an acceptable level. The varistor absorbs the unwanted energy thereby protecting voltage sensitive components against damage.



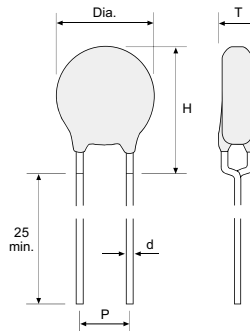
- Broad range
- Choice of voltage & energy ratings
- Fast response
- Protect voltage sensitive components against damage
- Convenient and simple solution to transient suppression
- Body colour **Gold**

Specification

Storage temperature range -40 C to +125 C
 Max. operating temperature +85 C
 Max. working surface temperature +115 C
 Response time <25ns
 Voltage coefficient/temperature -0.05%/ C
 Insulation resistance 1000M at 500V
 Insulation voltage 2500Vd.c.

 All JVR types are listed under UL file E153360 as a recognised component.

Dimensions (mm)



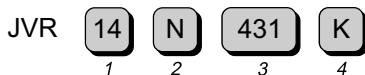
	Dia. max.	H max.	P	d
JVR5N-	6.5	11	5	0.6
JVR7N-	8.4	12	5	0.6
JVR10N-	11.5	15.5	7.5	0.8
JVR14N-	15.6	20.5	7.5	0.8
JVR20N-	21.8	28	10	1.0

Listed types	180K	220K	270K	330K	390K	470K	560K	680K	820K
T max.	3.9	4.1	4.3	4.5	4.3	4.5	4.7	5.0	3.9

Listed types	101K	121K	151K	181K	201K	221K	241K	271K	331K
T max.	4.0	4.2	4.4	4.6	4.7	4.3	4.9	4.5	4.2

Listed types	361K	391K	431K	471K	681K	751K	821K	911K	112K
T max.	5.0	5.6	5.8	4.9	7.0	7.3	7.2	8.1	8.5

Part Number Key (Varistors)



- | | | | |
|---|----------------------------|---|---------------------------------------|
| 1 | ELEMENT SIZE (Dia.) | 3 | VARISTOR VOLTAGE |
| 2 | MATERIAL
N = Zinc Oxide | 4 | VARISTOR VOLTAGE TOLERANCE
K = 10% |



Max. Operating Voltage (V)		Varistor Voltage (V)			Max. Clamping Voltage		Withstanding Surge Current		Rated Power	Energy (10/1000 s)	Typ. Cap. (1kHz)	SPLT pcs	Manf. Part No. & Order Code
rms	d.c.	Nom.	Min.	Max.	(V)	at (A)	1 Surge (A)	2 Surges (A)	(W)	(J)	(pF)		
11	14	18	14.4	21.6	40	1.0	100	50	0.01	0.6	1200	1000	JVR5N180K
11	14	18	14.4	21.6	36	2.5	250	125	0.02	1.2	2500	1000	JVR7N180K
11	14	18	14.4	21.6	36	10	1000	500	0.1	4.7	8700	500	JVR14N180K
14	18	22	18.7	26.0	43	2.5	250	125	0.02	1.4	2200	1000	JVR7N220K
14	18	22	18.7	26.0	43	10	1000	500	0.1	5.4	7700	500	JVR14N220K
17	22	27	23.0	31.1	53	2.5	250	125	0.02	1.7	2000	1000	JVR7N270K
17	22	27	23.0	31.1	53	10	1000	500	0.1	6.9	6800	500	JVR14N270K
20	26	33	29.5	36.5	65	2.5	250	125	0.02	2.2	1850	1000	JVR7N330K
20	26	33	29.5	36.5	65	10	1000	500	0.1	8.8	6500	500	JVR14N330K
25	31	39	35	43	77	2.5	250	125	0.02	2.4	1450	1000	JVR7N390K
25	31	39	35	43	77	10	1000	500	0.1	9.4	7500	500	JVR14N390K
30	38	47	42	52	93	2.5	250	125	0.02	3	1150	1000	JVR7N470K
30	38	47	42	52	93	5	500	250	0.05	6	3300	500	JVR10N470K
30	38	47	42	52	93	10	1000	500	0.1	12	6500	500	JVR14N470K
35	45	56	50	62	110	2.5	250	125	0.02	3.5	1050	1000	JVR7N560K
35	45	56	50	62	110	10	1000	500	0.1	14	5600	500	JVR14N560K
40	56	68	61	75	135	2.5	250	125	0.02	4.3	970	1000	JVR7N680K
40	56	68	61	75	135	10	1000	500	0.1	17	4700	500	JVR14N680K
50	65	82	74	90	145	5	800	600	0.1	3.5	255	1000	JVR5N820K
50	65	82	74	90	135	10	1750	1250	0.25	7	510	1000	JVR7N820K
50	65	82	74	90	135	50	6000	4500	0.6	28	2000	500	JVR14N820K
60	85	100	90	110	175	5	800	600	0.1	4.5	210	1000	JVR5N101K
60	85	100	90	110	165	10	1750	1250	0.25	9	425	1000	JVR7N101K
60	85	100	90	110	165	25	3500	2500	0.4	18	850	500	JVR10N101K
60	85	100	90	110	165	50	6000	4500	0.6	36	1700	500	JVR14N101K
75	100	120	108	132	200	10	1750	1250	0.25	11	370	1000	JVR7N121K
75	100	120	108	132	200	50	6000	4500	0.6	44	1400	500	JVR14N121K
95	125	150	135	165	260	5	800	600	0.1	6.5	150	1000	JVR5N151K
95	125	150	135	165	250	10	1750	1250	0.25	13	300	1000	JVR7N151K
95	125	150	135	165	250	25	3500	2500	0.4	25	620	500	JVR10N151K
95	125	150	135	165	250	50	6000	4500	0.6	53	1050	500	JVR14N151K
115	150	180	162	198	320	5	800	600	0.1	8	120	1000	JVR5N181K
115	150	180	162	198	300	10	1750	1250	0.25	16	240	1000	JVR7N181K
115	150	180	162	198	300	25	3500	2500	0.4	32	490	500	JVR10N181K
115	150	180	162	198	300	50	6000	4500	0.6	65	970	500	JVR14N181K
130	170	200	185	225	355	5	800	600	0.1	8.5	110	1000	JVR5N201K
130	170	200	185	225	340	10	1750	1250	0.25	17.5	220	1000	JVR7N201K
130	170	200	185	225	340	25	3500	2500	0.4	35	450	500	JVR10N201K
130	170	200	185	225	340	50	6000	4500	0.6	70	870	500	JVR14N201K
130	170	200	185	225	340	100	10000	6500	1.0	140	1900	150	JVR20N201K
140	180	220	198	242	360	25	3500	2500	0.4	39	430	500	JVR10N221K
140	180	220	198	242	360	50	6000	4500	0.6	78	800	500	JVR14N221K
150	200	240	216	264	415	5	800	600	0.1	10.5	90	1000	JVR5N241K
150	200	240	216	264	395	10	1750	1250	0.25	21	185	1000	JVR7N241K
150	200	240	216	264	395	25	3500	2500	0.4	42	410	500	JVR10N241K
150	200	240	216	264	395	50	6000	4500	0.6	84	750	500	JVR14N241K
150	200	240	216	264	395	100	10000	6500	1.0	168	1590	150	JVR20N241K
175	225	270	247	303	455	25	3500	2500	0.4	49	350	500	JVR10N271K
175	225	270	247	303	455	50	6000	4500	0.6	99	690	500	JVR14N271K
210	275	330	297	363	575	5	800	600	0.1	13	70	1000	JVR5N331K
210	275	330	297	363	550	10	1750	1250	0.25	28	150	1000	JVR7N331K
230	300	360	324	396	620	5	800	600	0.1	16	65	1000	JVR5N361K
230	300	360	324	396	595	10	1750	1250	0.25	32	135	1000	JVR7N361K
230	300	360	324	396	595	25	3500	2500	0.4	65	275	500	JVR10N361K
230	300	360	324	396	595	50	6000	4500	0.6	130	500	500	JVR14N361K
250	320	390	351	429	675	5	800	600	0.1	17	60	1000	JVR5N391K
250	320	390	351	429	650	10	1750	1250	0.25	35	125	1000	JVR7N391K
250	320	390	351	429	650	25	3500	2500	0.4	70	245	500	JVR10N391K
250	320	390	351	429	650	50	6000	4500	0.6	140	470	500	JVR14N391K
250	320	390	351	429	650	100	10000	6500	1.0	275	985	150	JVR20N391K
275	350	430	387	473	745	5	800	600	0.1	20	55	1000	JVR5N431K
275	350	430	387	473	710	10	1750	1250	0.25	40	110	1000	JVR7N431K
275	350	430	387	473	710	25	3500	2500	0.4	80	230	500	JVR10N431K
275	350	430	387	473	710	50	6000	4500	0.6	155	430	500	JVR14N431K
275	350	430	387	473	710	100	10000	6500	1.0	303	890	100	JVR20N431K
300	385	470	423	517	810	5	800	600	0.1	21	50	1000	JVR5N471K
300	385	470	423	517	775	10	1750	1250	0.25	42	105	1000	JVR7N471K
420	560	680	612	748	1120	25	3500	2500	0.4	112	135	500	JVR10N681K
420	560	680	612	748	1120	50	6000	4500	0.6	225	255	250	JVR14N681K
420	560	680	612	748	1120	100	10000	6500	1.0	430	560	100	JVR20N681K
460	615	750	675	825	1240	25	3500	2500	0.4	115	125	500	JVR10N751K
460	615	750	675	825	1240	50	6000	4500	0.6	230	230	250	JVR14N751K
460	615	750	675	825	1240	100	10000	6500	1.0	440	510	100	JVR20N751K
510	670	820	738	902	1355	25	3500	2500	0.4	118	115	250	JVR10N821K
510	670	820	738	902	1355	50	6000	4500	0.6	235	210	250	JVR14N821K
550	745	910	819	1001	1500	25	3500	2500	0.4	127	105	250	JVR10N911K
550	745	910	819	1001	1500	50	6000	4500	0.6	255	190	250	JVR14N911K
550	745	910	819	1001	1500	100	10000	6500	1.0	510	420	100	JVR20N911K
680	895	1100	990	1210	1815	25	3500	2500	0.4	155	85	250	JVR10N112K
680	895	1100	990	1210	1815	50	6000	4500	0.6	310	160	250	JVR14N112K