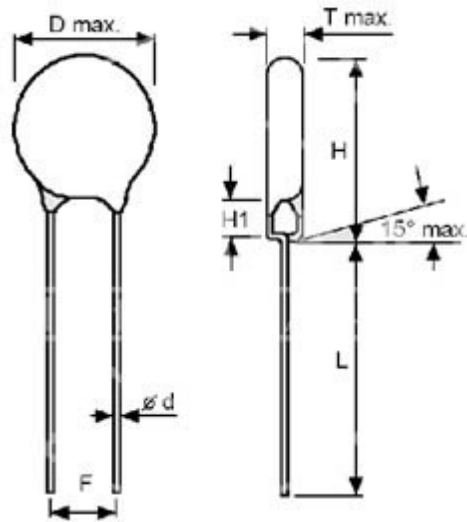


JVR_N_K

Application					
Varistors are used as voltage-dependent resistors (VDR's) to protect electronic devices. They safely and reliably protect against overload build-up and protect valuable equipment from power surge damage. Surge voltages are absorbed in the varistor.					
Selection Criteria					
<ul style="list-style-type: none"> • The maximum operating voltage must be lower than the varistor voltage • The capacity of the varistor (energy absorption) should match the energy content of the varistor 					
Technical Specifications					
Material:			Zinc Oxide (ZnO)		
Storage Temperature:			-40...+125°C		
Operating Temperature, Max.:			+85°C		
Working Surface Temperature, Max.:			+115°C		
Response Time, Max.:			25ns		
Voltage/Temperature Coefficient:			-0,05%/°C		
Insulation Resistance 500V:			>1000MW		
Part Nr.	U_{RMS}	U_{RMS}	U_V	DU_V	U_S
JVR_N_	[V~]	[V=]	[V]	[%]	[V]
101K	60	85	100	±10	175
180K	11	14	18	±10	40
390K	25	31	39	±10	77
391K	250	320	390	±10	650
U_{RMS} = Max. Operating Voltage , U_V = Varistor Voltage at 1 mA, DU_V = Tolerance of Varistor Voltage, U_S = Clamping Voltage					
Part Nr.	$I_{Max.}$	$I_{Max.}$	P_{Rated}	E	T
	1 Impulse	2 Impulse			
	[A]	[A]	[W]	[J]	[mm]
JVR05N180K	100	50	0,01	0,6	4,5
JVR05N390K	100	50	0,01	1,2	4,7
JVR07N390K	250	125	0,02	2,4	4,7
JVR07N101K	1200	600	0,25	7,0	3,4
JVR10M390K	500	250	0,05	4,7	5,1
1) , 2) , $I_{Max.}$ = Max. Surge Current (8 x 20µs), P_{Rated} = Rated Power, E = Energy Absorption, 2 ms, T = Disc Thickness					



Dimensions

Part Nr.	D _{Max.}	Ø d	F	H _{Max.}	H _{1Max.}	L _{Min.}	T _{Max.}
JVR_	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
05_	7,5	0,6 ^{±0,05}	5,0 ^{±1}	11,0	3,5	24,0	s. o.
07_	9,0	0,6 ^{±0,05}	5,0 ^{±1}	13,0	3,5	24,0	s. o.
10_	12,5	0,6/0,8 ^{±0,05}	5,0/7,5 ^{±1}	18,0	5,0	24,0	s. o.

Labelling

Joyin logo, disc diameter, material (N=ZnO), varistor voltage, tolerance (K=10%), series, UL(CSA) logo on the reverse side

Approvals



not all types



not all types