

Radial Zinc Oxide Varistors VE Series, Specifications



Part Number Determination

VE09M00251K						
VE	09	M	0	0251	K	-
TYPE	DIA MAX	SERIES	MARKING	OPERATING VOLTAGE	TOLERANCE	PACKAGING
	07=7mm 09=9mm 13=13mm 17=17mm 24=24mm	M=Varistors for general applications P=Varistors for heavy duty applications	AC Nominal voltage Use 0 for VE type	1st digit is zero 2nd and 3rd digits are significant and the 4th represents the number of zeros to follow 0251=250V	K=±10%	-- =Bulk DA,DC,EA,EB=Ammopack DB,DD,EN,ED=T/R

Electrical Characteristics

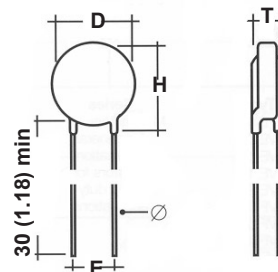
Storage Temperature: -40 to +125°C
Max. Operating Temperature: +85°C
Response Time: <25ns
Voltage Coef Temp: 1 K I < 0.09%/°C
Voltage Proof: 2500V
Epoxy Coating: Flame retardant UL94-V0

Marking

Type
AC nominal voltage in EIA coding
Logo
UL logo
Lot number for VE13/17/14

Package Dimensions (mm/in)

Type	D		H max.	t max.	Dia +10% -0.05(.002)	E +0.8
	Ceramic diameter	Maximum coated diameter				
VE07	5 (.196)	7 (.275)	10 (.394)	See specification table	0.6 (.024)	5.08 (0.20)
VE09	7 (.275)	9 (.354)	12 (.472)			
VE13	10 (.393)	13 (.512)	16 (.630)		0.8 (.031)	7.62 (0.30)
VE17	14 (.551)	17 (.669)	20 (.787)			
VE24	20 (.787)	24 (.945)	27 (1.06)			



Electrical Characteristics

Part Number	Max Operating Voltage		Nominal Voltage @ 1mA dc			Max Clamping Voltage (8 x 20us)		Max Energy Absorption (10 x 1000us) W (J)		Max Permissible Peak Current (8 x 20us) Ip (A)		Typical Capacitance f=1kHz	Mean Power Dissipation	Max Thickness
	V _{rms}	V _{DC}	V _{1mA mini}	V _{1mA nom}	V _{1mA max}	V _p (V)	I _p (A)	1 surge	10 surges	1 surge	2 surges	pF	W	t mm (inches)
VE09M00250K	25	31	35	39	43	77	2.5	1.6	1.0	250	125	1250	0.02	3.6 (.142)
VE07M00300K	30	38	42	47	52	93	1	0.9	0.4	100	50	580	0.01	3.8 (.150)
VE09M00300K							2.5	2.0	1	250	125	1050	0.02	
VE09M00400K	40	56	61	68	75	135	2.5	3.0	1	250	125	720	0.02	4.1 (.161)
VE13M00600K	60	80	90	100	110	165	25	10	7	2500	1250	870	0.4	4.5 (.177)
VE09M00131K	130	170	184	205	226	340	10	9.5	4	1200	600	250	0.2	4.1 (.161)
VE17M00131K							50	34	25	4500	2500	1000	0.6	4.7 (.185)
VE09M00141K	140	180	198	220	242	360	10	10	4	1200	600	235	0.2	4.2 (.165)
VE09M00151K	150	200	216	240	264	400	10	11	4.1	1200	600	220	0.2	4.3 (.169)
VE17M00151K							50	40	30	4500	2500	850	0.6	4.9 (.193)
VE24P01750K	175	225	243	270	297	445	100	190		10000	70000	2000	0.8	5.5 (.217)
VE09M00251K	250	320	351	390	429	645	10	19	7.3	1200	600	130	0.2	5.4 (.213)
VE17M00251K							50	65	39	4500	2500	500	0.6	5.9 (.232)
VE09M02750K	275	350	387	430	473	710	10	21	7.4	1200	600	120	0.2	5.7 (.224)
VE17M02750K							50	71	40	4500	2500	2500	450	0.6
VE09M00301K	300	385	423	470	517	775	10	25	7.5	1200	600	100	0.2	6.0 (.236)
VE13M00301K							25	45	20	2500	1250	180	0.4	6.6 (.260)
VE17M00301K							50	80	42	4500	2500	400	0.6	