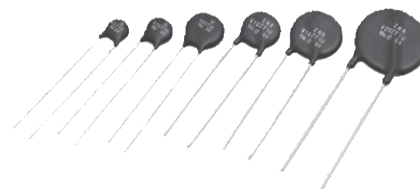


D type

V series



Features

- Large withstanding surge current capability in compact sizes
- Large "Energy Handling Capability" absorbing transient overvoltages in compact sizes
- Wide range of varistor voltages
- RoHS compliant

Recommended applications

- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronic equipment
- Surge protection in communication, measuring or controller electronics
- Surge protection in electronic home appliances, gas or petroleum appliances

Applicable standards

- UL1449 (VZCA2/UL, VZCA8/C-UL)
- VDE IEC61051-1, -2, -2-2, IEC60950-1 Annex.Q, IEC62368-1 G8.2
- CSA C22.2 N 269.5
- CQC (GB/T10193, GB/T10194, GB4943.1, GB8898)

Refer to "Standard Products" , and "Application Note for Safety Standards" , for the details.

■ As for handling precautions and minimum quantity / packing unit, please see related information

Explanation of part numbers (Bulk)

1	2	3	4	5	6	7	8	9	10	11	12
E	R	Z	V			D					
Product code			Series			Lead configuration			Design No.		
			Element size						Normal varistor voltage		
			05	ø5 mm	10	ø10 mm	D	Straight lead	The first two digits are significant figures and the third one denotes the number of zeros following.		
			07	ø7 mm	14	ø14 mm	V	Crimped lead*			
			09	ø10 mm	20	ø20 mm					
							*Excluding ø20				
							*Only the lead cut				

Explanation of part numbers (Taping)

1	2	3	4	5	6	7	8	9	10	11	12
E	R	Z	V			D					
Product code			Series						Design No.		
Taping / Packaging					Element size		Lead configuration		Normal varistor voltage		
A to D		Radial taping(Po=12.7 mm)			5	ø5 mm		D	Straight lead		The first two digits are significant figures and the third one denotes the number of zeros following.
E to H		Radial taping(Po=15.0 mm)			7	ø7 mm		V	Crimped lead		
					9	ø10 mm					
					A	ø10 mm					
					E	ø14 mm					

Reference guide to standard products

Part No.	Applicable standards		Varistor voltage*	Maximum allowable voltage		Clamping voltage at 8/20 μ s		Maximum peak current at 8/20 μ s (A)	
	Type name	Approvals	(V)	AC rms (V)	DC (V)	max.(V)	I _p (A)	1 time	2 times
ERZV05D820	V820U	○☆◇	82 (74 to 90)	50	65	145	5	800	600
ERZV07D820	V7820U	○☆◇				135	10	1750	1250
ERZV09D820	V9820U	○☆◇				135	25	3500	2500
ERZV10D820	V10820U	○☆◇				135	25	3500	2500
ERZV14D820	V14820U	○☆◇				135	50	6000	5000
ERZV20D820	V20820U	○☆◇				135	100	10000	7000
ERZV05D101	V101U	○☆◇	100 (90 to 110)	60	85	175	5	800	600
ERZV07D101	V7101U	○☆◇				165	10	1750	1250
ERZV09D101	V9101U	○☆◇				165	25	3500	2500
ERZV10D101	V10101U	○☆◇				165	25	3500	2500
ERZV14D101	V14101U	○☆◇				165	50	6000	5000
ERZV20D101	V20101U	○☆◇				165	100	10000	7000
ERZV05D121	V121U	○☆◇	120 (108 to 132)	75	100	210	5	800	600
ERZV07D121	V7121U	○☆◇				200	10	1750	1250
ERZV09D121	V9121U	○☆◇				200	25	3500	2500
ERZV10D121	V10121U	○☆◇				200	25	3500	2500
ERZV14D121	V14121U	○☆◇				200	50	6000	5000
ERZV20D121	V20121U	○☆◇				200	100	10000	7000
ERZV05D151	V151U	○☆◇	150 (135 to 165)	95	125	260	5	800	600
ERZV07D151	V7151U	○☆◇				250	10	1750	1250
ERZV09D151	V9151U	○☆◇				250	25	3500	2500
ERZV10D151	V10151U	○☆◇				250	25	3500	2500
ERZV14D151	V14151U	○☆◇				250	50	6000	5000
ERZV20D151	V20151U	○☆◇				250	100	10000	7000
ERZV05D201	V201U	○☆□◇	200 (185 to 225)	130	170	355	5	800	600
ERZV07D201	V7201U	○☆□◇				340	10	1750	1250
ERZV09D201	V9201U	○☆□◇				340	25	3500	2500
ERZV10D201	V10201U	○☆□◇				340	25	3500	2500
ERZV14D201	V14201U	○☆★□◇◆				340	50	6000	5000
ERZV20D201	V20201U	○☆★□◇◆				340	100	10000	7000
ERZV05D221	V221U	○☆□◇	220 (198 to 242)	140	180	380	5	800	600
ERZV07D221	V7221U	○☆□◇				360	10	1750	1250
ERZV09D221	V9221U	○☆□◇				360	25	3500	2500
ERZV10D221	V10221U	○☆□◇				360	25	3500	2500
ERZV14D221	V14221U	○☆★□◇◆				360	50	6000	5000
ERZV20D221	V20221U	○☆★□◇◆				360	100	10000	7000
ERZV05D241	V241U	○☆□◇	240 (216 to 264)	150	200	415	5	800	600
ERZV07D241	V7241U	○☆□◇				395	10	1750	1250
ERZV09D241	V9241U	○☆□◇				395	25	3500	2500
ERZV10D241	V10241U	○☆□◇				395	25	3500	2500
ERZV14D241	V14241U	○☆★□◇◆				395	50	6000	5000
ERZV20D241	V20241U	○☆★□◇◆				395	100	10000	7000
ERZV05D271	V271U	○☆□◇	270 (247 to 303)	175	225	475	5	800	600
ERZV07D271	V7271U	○☆□◇				455	10	1750	1250
ERZV09D271	V9271U	○☆□◇				455	25	3500	2500
ERZV10D271	V10271U	○☆□◇				455	25	3500	2500
ERZV14D271	V14271U	○☆★□◇◆				455	50	6000	5000
ERZV20D271	V20271U	○☆★□◇◆				455	100	10000	7000

* Measuring Current of Varistor Voltage 5 Series (ERZV05D □□□) : 0.1 mA, Others : 1 mA

○: UL1449 (VZCA2/UL, VZCA8/C-UL),

☆: VDE (IEC61051-1, -2, -2-2), ★: VDE (IEC60950-1 Annex.Q, IEC62368-1 G8.2), □: CSA C22.2 No.269.5

◇: CQC (GB/T10193, GB/T10194), ◆: CQC (GB4943.1, GB8898)

※ Approval number (File No.) of safety regulations are subject to revision without notice. Ask factory for a copy of the latest file No.