HUAAN 华兴安电子 HUAAN LIMITED

VDR-34S Two Chips Series

Metal Oxide Varistors (MOV)

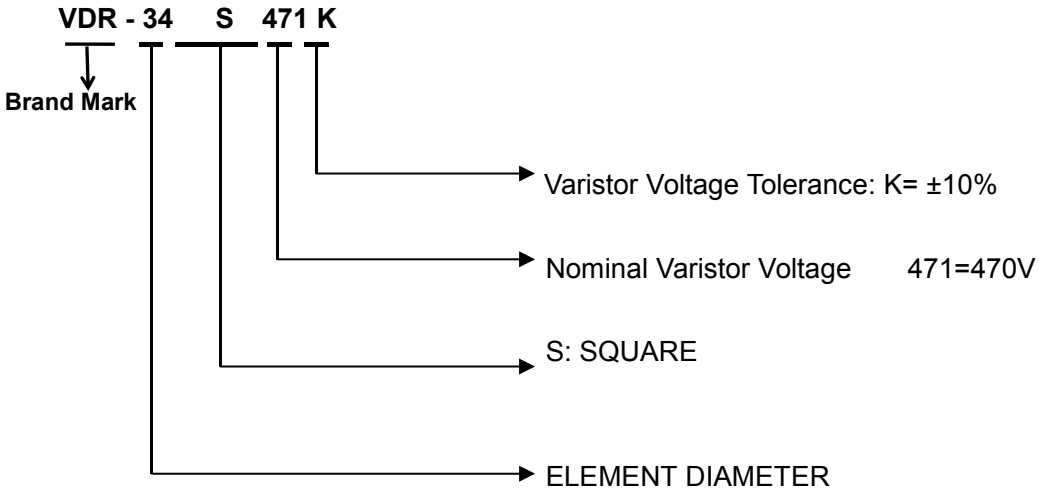
Features

·Wide operating voltage (V1mA) range from 200V to 1800V
·Fast responding to transient over-voltage
·Large absorbing transient energy capability
·Low clamping ratio and no follow-on current
·Meets MSL level 1, per J-STD-020
·Operating Temperature：-40℃ ~ +85℃
·Storage Temperature：-40℃ ~ +125℃
·UL 1449 4th for SPD Type 5 application
·Safety certification:

Applications

·Transistor, diode, IC, thyristor or triac semiconductor protection
·Surge protection in consumer electronics
·Surge protection in industrial electronics
·Surge protection in electronic home appliances, gas and petroleum appliances
·Relay and electromagnetic valve surge absorption

Description of Part Number



Delivery Time

Standard MOV	Delivery Time	Standard MOV	Delivery Time
VDR-34S130~VDR-34S1100	32days	VDR-34S201K~VDR-34S182K	32days

Electrical Characteristics

Part Number Marking	Ordering Code	Maximum Allowable Voltage		Varistor Voltage	Maximum Clamping Voltage		Max Surge Current 8/20μs	Surge Operating Duty Test IEC 61643-11 (8/20μs)		Maximum Energy (2ms)	Safety Certification
		V_{AC}	V_{DC}	V_{1mA}(V)	I_P(A)	V_C(V)	Imax	Imax	In	(J)	UL /CUL
VDR 34S130	VDR-34S201K	130V	170V	200(180~220)	500	340	80KA	70KA	40KA	410	√
VDR 34S140	VDR-34S221K	140V	180V	220(198~242)	500	360	80KA	70KA	40KA	451	√
VDR 34S150	VDR-34S241K	150V	200V	240(216~264)	500	395	80KA	70KA	40KA	490	√
VDR 34S175	VDR-34S271K	175V	225V	270(243~297)	500	455	80KA	70KA	40KA	550	√
VDR 34S190	VDR-34S301K	190V	250V	300(270~330)	500	500	80KA	70KA	40KA	600	-
VDR 34S210	VDR-34S331K	210V	275V	330(297~363)	500	550	80KA	70KA	40KA	650	√
VDR 34S230	VDR-34S361K	230V	300V	360(324~396)	500	595	80KA	70KA	40KA	730	√
VDR 34S250	VDR-34S391K	250V	320V	390(351~429)	500	650	80KA	70KA	40KA	800	√
VDR 34S275	VDR-34S431K	275V	350V	430(387~473)	500	710	80KA	70KA	40KA	860	√
VDR 34S300	VDR-34S471K	300V	385V	470(423~517)	500	775	80KA	70KA	40KA	950	√
VDR 34S320	VDR-34S511K	320V	415V	510(459~561)	500	845	80KA	70KA	40KA	1000	√
VDR 34S350	VDR-34S561K	350V	460V	560(504~616)	500	925	80KA	70KA	40KA	1100	√
VDR 34S385	VDR-34S621K	385V	505V	620(558~682)	500	1025	80KA	70KA	40KA	1200	√
VDR 34S420	VDR-34S681K	420V	560V	680(612~748)	500	1120	80KA	70KA	40KA	1500	√
VDR 34S460	VDR-34S751K	460V	615V	750(675~825)	500	1240	80KA	70KA	40KA	1650	√
VDR 34S480	VDR-34S781K	485V	640V	780(702~858)	500	1290	80KA	70KA	40KA	1700	√
VDR 34S510	VDR-34S821K	510V	670V	820(738~902)	500	1355	80KA	70KA	40KA	1350	√
VDR 34S550	VDR-34S911K	550V	745V	910(819~1001)	500	1500	80KA	70KA	40KA	1500	√
VDR 34S625	VDR-34S102K	625V	825V	1000(900~1100)	500	1650	80KA	70KA	40KA	1650	√
VDR 34S680	VDR-34S112K	680V	895V	1100(990~1210)	500	1815	80KA	70KA	40KA	1800	√
VDR 34S750	VDR-34S122K	750V	980V	1200(1080~1320)	500	1980	80KA	70KA	40KA	2000	√
VDR 34S880	VDR-34S142K	880V	1140V	1400(1260~1540)	500	2310	80KA	70KA	40KA	2200	-
VDR 34S1000	VDR-34S162K	1000V	1280V	1600(1440~1760)	500	2640	80KA	70KA	40KA	2400	-
VDR 34S1100	VDR-34S182K	1100V	1465V	1800(1620~1980)	500	2970	80KA	70KA	40KA	2600	-

Dimension(mm)

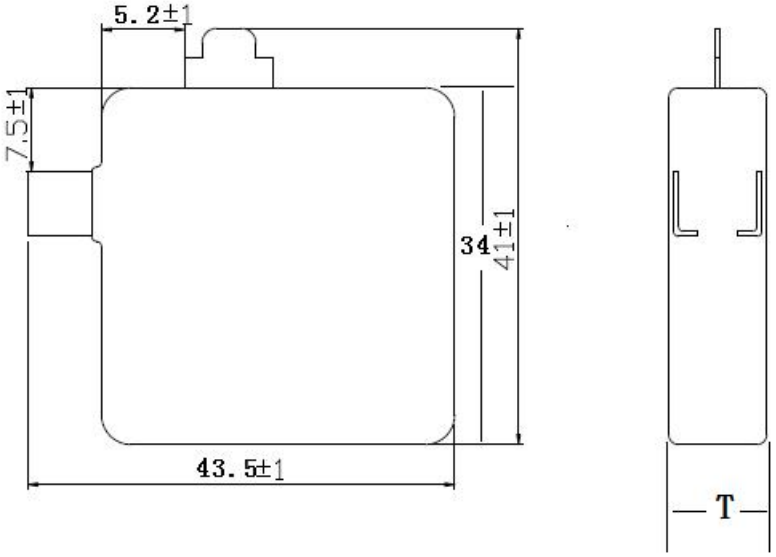


TABLE2	
Part number	T
VDR 34S130	Thickness are available upon request
VDR 34S140	
VDR 34S150	
VDR 34S175	
VDR 34S190	
VDR 34S210	
VDR 34S230	
VDR 34S250	
VDR 34S275	
VDR 34S300	
VDR 34S320	
VDR 34S350	
VDR 34S385	8.7mm
VDR 34S420	Thickness are available upon request
VDR 34S460	
VDR 34S480	
VDR 34S510	
VDR 34S550	
VDR 34S625	
VDR 34S680	
VDR 34S750	
VDR 34S880	
VDR 34S1000	
VDR 34S1100	

Packing Information

Part Number	Quantity	Packaging Option
VDR-34S130 ~ VDR-34S385	**40PCS**	**Foam box**
VDR-34S420 ~ VDR-34S1100	**32PCS**	**Foam box**

Notice for use

To avoid damage to other equipment due to fire or deterioration caused by varistor, please refer to and observe the following principles:

1) When a high current or high voltage flows into the varistor, the varistor itself may be damaged, heated, smoke, catch fire and burst.

To avoid this, fuses or circuit breakers can be installed at both ends of the varistor or power supply;

The fuses of the following specifications are for reference only:

Diameter	05D	07D	10D	14D	20D
Rated current of fuse	1-2A	2-3A	3-5A	3-10A	5-15A

2) Do not allow the current and energy flowing into the varistor to exceed its rated value.

3) The marked VDR product brand names and marks are all patent applications of the company. Customers who use or sell VDR products that are not specifically designated for such applications are at their own risk.

4) All VDR products, product specifications and data are subject to change without notice, please improve. For any data sheet Or any other data sheet. Any errors included. Inaccurate or incomplete shall not be liable.

5) Regarding the suitability of products for specific applications. It is the customer's responsibility to confirm that products with the characteristics described in the product specifications application. The data provided in the parameter data sheets and / or specifications may vary for different applications and performance may vary over time Variety. All operating parameters, including typical parameters, must be provided by the customer ’s technical experts. Product specifications will not expand or Modify the VDR procurement terms and conditions in other ways, including but not limited to the guarantees described therein.

6) Do not place flammable substances near the varistor.

7) The varistor can only emit a small amount of heat energy, so it is not suitable for use in equipment that often generates sudden heat.

In addition, the higher the working environment of the varistor, the smaller the proportion of heat dissipated. Varistors can only dissipate a small amount of heat energy, so they are not suitable for use in equipment that often generates sudden heat.

If a large amount of heat acts on the varistor in an instant, it is possible that the heat energy cannot be dissipated within the pulse time And the varistor is damaged.

8) When welding, please be careful not to melt the welding points of the varistor and the resin coating.

Material category policy

All products of VDR hereby certify that RoHS-compliant products are in accordance with the definitions and Restrictions on June 8, 2011 regarding restrictions on the use of certain hazardous substances (Reach) in electrical and electronic equipment. We confirm All VDR products comply with the IEC 61249-2-21 JEDEC JS709A standard.