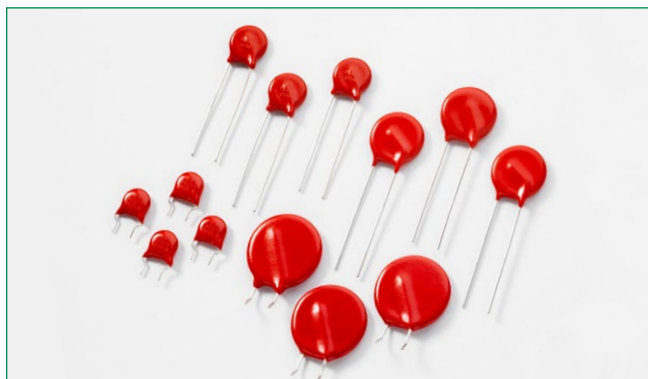


UltraMOV® Varistor Series



Agency Approvals

Agency	Agency Approval	Agency File Number
	UL1449	E320116 ³
 	CECC 42201-006 IEC 61051-1 IEC 61051-2 IEC 60950-1 (Annex Q) for 14mm and 20mm only	116895 ¹
	CECC 42201-006 IEC 61051-1 IEC 61051-2 IEC 60950-1 (Annex Q) for 10mm, 14mm and 20mm only	IECQ-C BSI 14.0001 ¹
	IEC/EN 61051-1 IEC 61051-2 IEC 61051-2-2 IEC 60950-1 (Annex Q) for 10mm, 14mm and 20mm only	J 50324242 ²

Notes:

1. Epoxy coated only.
2. Phenolic coated only.
3. All epoxy coated sizes are UL Recognized while only 10mm, 14mm, and 20mm phenolic coated parts are UL recognized.

Description

The UltraMOV® Metal Oxide Varistor Series is designed for applications requiring high peak surge current ratings and high energy absorption capability. UltraMOV® varistors are primarily intended for use in AC Line Voltage applications such as Surge Protection Device (SPD), Uninterruptable Power Supplies (UPS), AC Power Taps, AC Power Meters, or other products that require voltage clamping of high transient surge currents from sources such as lightning, inductive load switching, or capacitor bank switching.

These devices are produced in radial lead package sizes of 7, 10, 14 and 20mm and offered in a variety of lead forms. UltraMOV® varistor are manufactured with recognized epoxy encapsulation and are rated for ambient temperatures up to 85°C with no derating. This Series is LASER-branded and is supplied in bulk, ammo pack (fan-fold), or tape and reel packaging.

Features

- Lead-free, Halogen-Free and RoHS compliant
- High peak surge current rating (I_{TM}) up to 10kA, single 8 x 20 pulse, (20mm)
- Standard operating voltage range compatible with common AC line voltages (130 V_{AC} to 625 V_{AC})
- Characterized for maximum standby current (Leakage)
- Custom voltage types available
- Standard lead form and lead space options
- High operating temperature range up to 125°C (phenolic coating option). 10mm, 14mm and 20mm devices are UL Recognized and TUV certified with 800V isolation voltage rating

Absolute Maximum Ratings

Continuous	UltraMOV® Varistor Series	Units
Steady State Applied Voltage:		
AC Voltage Range ($V_{MIACIRMS}$)	130 to 625	V
Transients:		
Single-Pulse Peak Current (I_{TM}) 8x20μs Wave (See Figure 2)	1,750 to 10,000	A
Single-Pulse Energy Range (W_{TM}) 2ms Square Wave	12.5 to 400	J
Operating Ambient Temperature Range (T_A) for Epoxy coated	-55 to +85	°C
Operating Ambient Temperature Range (T_A) for Phenolic coated	-55 to +125	°C
Storage Temperature Range (T_{STG}) for Epoxy coated	-55 to +125	°C
Storage Temperature Range (T_{STG}) for Phenolic coated	-55 to +150	°C
Temperature Coefficient (a%) of Clamping Voltage (V_C) at Specified Test Current	<0.01	%/°C
Hi-Pot Encapsulation (COATING Isolation Voltage Capability)	2500	V
COATING Insulation Resistance	1000	MΩ

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress only rating and operation of the device at these or any other conditions above those indicated in the operational sections of this specification is not implied.

- For ratings of individual members of a series, see Device Ratings and Specifications chart

UltraMOV® Series Ratings & Specifications

Epoxy Coated Models		Phenolic Coated Models		Maximum Rating (85°C)					Specifications (25°C)				
				Continuous		Transient			Varistor Voltage at 1mA DC Test Current		Maximum Clamping Voltage 8 x 20µs		Typical Capacitance
				RMS Volts	DC Volts	Energy 2ms	Peak Current 8 x 20µs						
Part Number	Branding	Part Number	Branding	V _{M(AC)}	V _{M(DC)}	W _{TM}	I _{TM} 1 x Pulse	I _{TM} 2 x Pulse	V _{NOM} Min	V _{NOM} Max	V _C	I _{PK}	
				(V)	(V)	(J)	(A)	(A)	(V)	(V)	(V)	(A)	(pF)
V07E130P	P7V130	V07P130P	P7P130	130	170	12.5	1750	1200	184.5	225.5	340	10	180
V10E130P	P10V130	V10P130P	P10P130	130	170	25	3500	2500	184.5	225.5	340	25	450
V14E130P	P14V130	V14P130P	P14P130	130	170	50	6000	4500	184.5	225.5	340	50	1000
V20E130P	P20V130	V20P130P	P20P130	130	170	100	10000	6500	184.5	225.5	340	100	1900
V07E140P	P7V140	V07P140P	P7P140	140	180	13.5	1750	1200	198	242	360	10	160
V10E140P	P10V140	V10P140P	P10P140	140	180	27.5	3500	2500	198	242	360	25	400
V14E140P	P14V140	V14P140P	P14P140	140	180	55	6000	4500	198	242	360	50	900
V20E140P	P20V140	V20P140P	P20P140	140	180	110	10000	6500	198	242	360	100	1750
V07E150P	P7V150	V07P150P	P7P150	150	200	15	1750	1200	216	264	395	10	150
V10E150P	P10V150	V10P150P	P10P150	150	200	30	3500	2500	216	264	395	25	360
V14E150P	P14V150	V14P150P	P14P150	150	200	60	6000	4500	216	264	395	50	800
V20E150P	P20V150	V20P150P	P20P150	150	200	120	10000	6500	216	264	395	100	1600
V07E175P	P7V175	V07P175P	P7P175	175	225	17	1750	1200	243	297	455	10	130
V10E175P	P10V175	V10P175P	P10P175	175	225	35	3500	2500	243	297	455	25	350
V14E175P	P14V175	V14P175P	P14P175	175	225	70	6000	4500	243	297	455	50	700
V20E175P	P20V175	V20P175P	P20P175	175	225	135	10000	6500	243	297	455	100	1400
V07E230P	P7V230	V07P230P	P7P230	230	300	20	1750	1200	324	396	595	10	100
V10E230P	P10V230	V10P230P	P10P230	230	300	42	3500	2500	324	396	595	25	250
V14E230P	P14V230	V14P230P	P14P230	230	300	80	6000	4500	324	396	595	50	550
V20E230P	P20V230	V20P230P	P20P230	230	300	160	10000	6500	324	396	595	100	1100
V07E250P	P7V250	V07P250P	P7P250	250	320	25	1750	1200	351	429	650	10	90
V10E250P	P10V250	V10P250P	P10P250	250	320	50	3500	2500	351	429	650	25	220
V14E250P	P14V250	V14P250P	P14P250	250	320	100	6000	4500	351	429	650	50	500
V20E250P	P20V250	V20P250P	P20P250	250	320	170	10000	6500	351	429	650	100	1000
V07E275P	P7V275	V07P275P	P7P275	275	350	28	1750	1200	387	473	710	10	80
V10E275P	P10V275	V10P275P	P10P275	275	350	55	3500	2500	387	473	710	25	200
V14E275P	P14V275	V14P275P	P14P275	275	350	110	6000	4500	387	473	710	50	450
V20E275P	P20V275	V20P275P	P20P275	275	350	190	10000	6500	387	473	710	100	900
V07E300P	P7V300	V07P300P	P7P300	300	385	30	1750	1200	423	517	775	10	70
V10E300P	P10V300	V10P300P	P10P300	300	385	60	3500	2500	423	517	775	25	180
V14E300P	P14V300	V14P300P	P14P300	300	385	125	6000	4500	423	517	775	50	400
V20E300P	P20V300	V20P300P	P20P300	300	385	250	10000	6500	423	517	775	100	800
V07E320P	P7V320	V07P320P	P7P320	320	420	32	1750	1200	459	561	840	10	65
V10E320P	P10V320	V10P320P	P10P320	320	420	67	3500	2500	459	561	840	25	170
V14E320P	P14V320	V14P320P	P14P320	320	420	136	6000	4500	459	561	840	50	380
V20E320P	P20V320	V20P320P	P20P320	320	420	273	10000	6500	459	561	840	100	750
V07E385P	P7V385	V07P385P	P7P385	385	505	36	1750	1200	558	682	1025	10	60
V10E385P	P10V385	V10P385P	P10P385	385	505	75	3500	2500	558	682	1025	25	160
V14E385P	P14V385	V14P385P	P14P385	385	505	150	6000	4500	558	682	1025	50	360
V20E385P	P20V385	V20P385P	P20P385	385	505	300	10000	6500	558	682	1025	100	700
V07E420P	P7V420	V07P420P	P7P420	420	560	40	1750	1200	612	748	1120	10	55
V10E420P	P10V420	V10P420P	P10P420	420	560	80	3500	2500	612	748	1120	25	140
V14E420P	P14V420	V14P420P	P14P420	420	560	160	6000	4500	612	748	1120	50	300
V20E420P	P20V420	V20P420P	P20P420	420	560	320	10000	6500	612	748	1120	100	600
V07E440P	P7V440	V07P440P	P7P440	440	585	44	1750	1200	643.5	786.5	1180	10	50
V10E440P	P10V440	V10P440P	P10P440	440	585	85	3500	2500	643.5	786.5	1180	25	130
V14E440P	P14V440	V14P440P	P14P440	440	585	170	6000	4500	643.5	786.5	1180	50	260
V20E440P	P20V440	V20P440P	P20P440	440	585	340	10000	6500	643.5	786.5	1180	100	500
V07E460P	P7V460	V07P460P	P7P460	460	615	48	1750	1200	675	825	1240	10	45

Ratings & Specifications (Continued...)

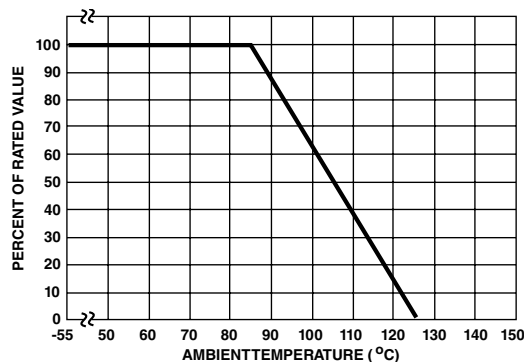
Epoxy Coated Models		Phenolic Coated Models		Maximum Rating (85°C)					Specifications (25°C)				
				Continuous		Transient			Varistor Voltage at 1mA DC Test Current		Maximum Clamping Voltage 8 x 20µs		Typical Capacitance
				RMS Volts	DC Volts	Energy 2ms	Peak Current 8 x 20µs						
Part Number	Branding	Part Number	Branding	V _{M(AC)}	V _{M(DC)}	W _{TM}	I _{TM} 1 x Pulse	I _{TM} 2 x Pulse	V _{NOM} Min	V _{NOM} Max	V _C	I _{PK}	f = 1MHz
				(V)	(V)	(J)	(A)	(A)	(V)	(V)	(V)	(A)	(pF)
V10E460P	P10V460	V10P460P	P10P460	460	615	90	3500	2500	675	825	1240	25	120
V14E460P	P14V460	V14P460P	P14P460	460	615	180	6000	4500	675	825	1240	50	220
V20E460P	P20V460	V20P460P	P20P460	460	615	360	10000	6500	675	825	1240	100	400
V07E510P	P7V510	V07P510P	P7P510	510	670	52	1750	1200	738	902	1355	10	40
V10E510P	P10V510	V10P510P	P10P510	510	670	92	3500	2500	738	902	1355	25	110
V14E510P	P14V510	V14P510P	P14P510	510	670	185	6000	4500	738	902	1355	50	200
V20E510P	P20V510	V20P510P	P20P510	510	670	365	10000	6500	738	902	1355	100	350
V10E550P	P10V550	V10P550P	P10P550	550	745	95	3500	2500	819	1001	1500	25	100
V14E550P	P14V550	V14P550P	P14P550	550	745	190	6000	4500	819	1001	1500	50	180
V20E550P	P20V550	V20P550P	P20P550	550	745	370	10000	6500	819	1001	1500	100	300
V10E625P	P10V625	V10P625P	P10P625	625	825	100	3500	2500	900	1100	1650	25	90
V14E625P	P14V625	V14P625P	P14P625	625	825	200	6000	4500	900	1100	1650	50	160
V20E625P	P20V625	V20P625P	P20P625	625	825	400	10000	6500	900	1100	1650	100	250

NOTE: 1. Average power dissipation of transients should not exceed 0.25W, 0.4W, 0.6W and 1.0W for 7mm, 10mm, 14mm, and 20mm model sizes, respectively.

Current Energy and Power Dissipation Ratings

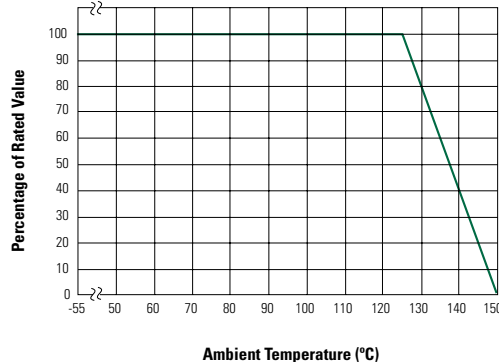
Should transients occur in rapid succession, the average power dissipation is the energy (watt-seconds) per pulse times the number of pulses per second. The power so developed must be within the specifications shown on the Device Ratings and Specifications Table for the specific

Figure 1A - Power Derating for Epoxy Coated

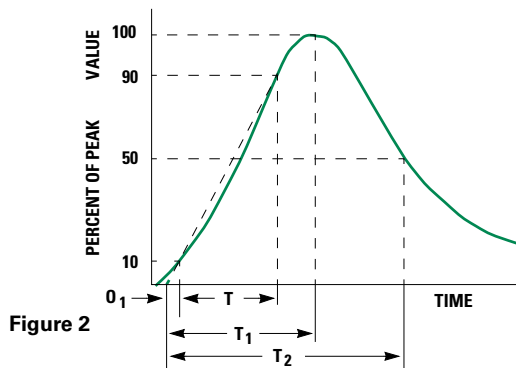


device. The operating values of a MOV need to be derated at high temperatures as shown above. Because varistors only dissipate a relatively small amount of average power they are not suitable for repetitive applications that involve substantial amounts of average power dissipation.

Figure 1B - Power Derating for Phenolic Coated



Peak Pulse Current Test Waveform



O_1 = Virtual Origin of Wave
 T = Time from 10% to 90% of Peak
 T_1 = Rise Time = $1.25 \times T$
 T_2 = Decay Time
Example - For an 8/20 µs Current Waveform:
 $8\mu s = T_1$ = Rise Time
 $20\mu s = T_2$ = Decay Time

Transient V-I Characteristics Curves

Maximum Clamping Voltage for 7mm Parts

V7E130(P)-V7E510(P)

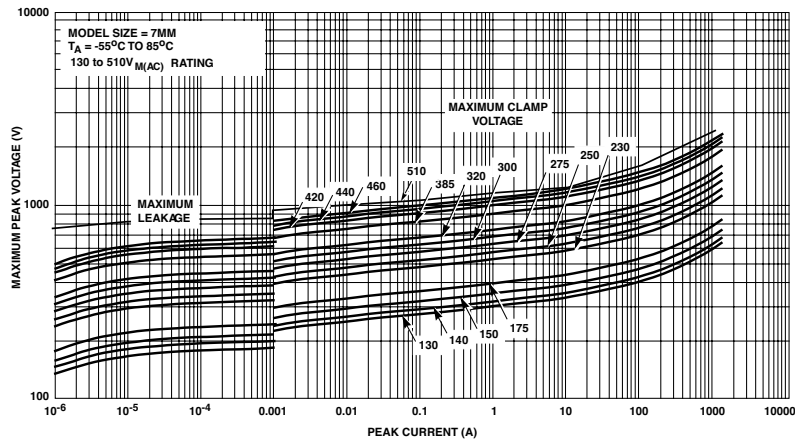


Figure 3

Maximum Clamping Voltage for 10mm Parts

V10E130(P)-V10E625(P)

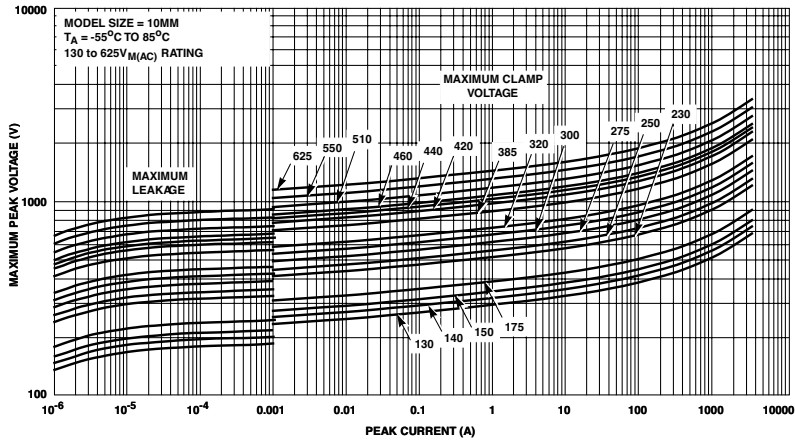


Figure 4

Maximum Clamping Voltage for 14mm Parts

V14E130(P) - V14E625(P)

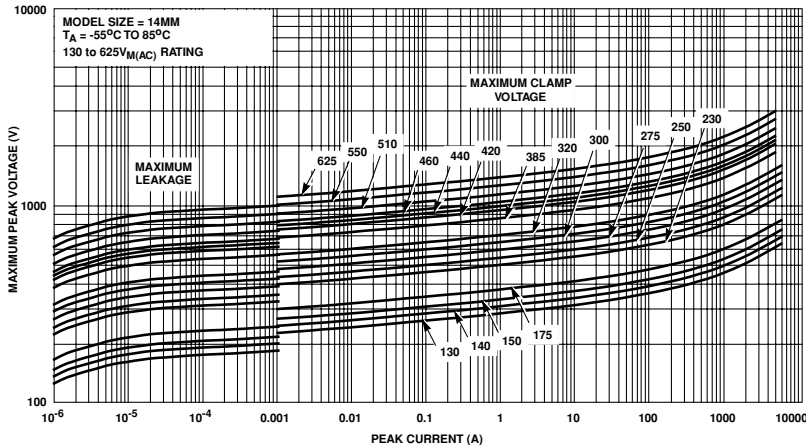
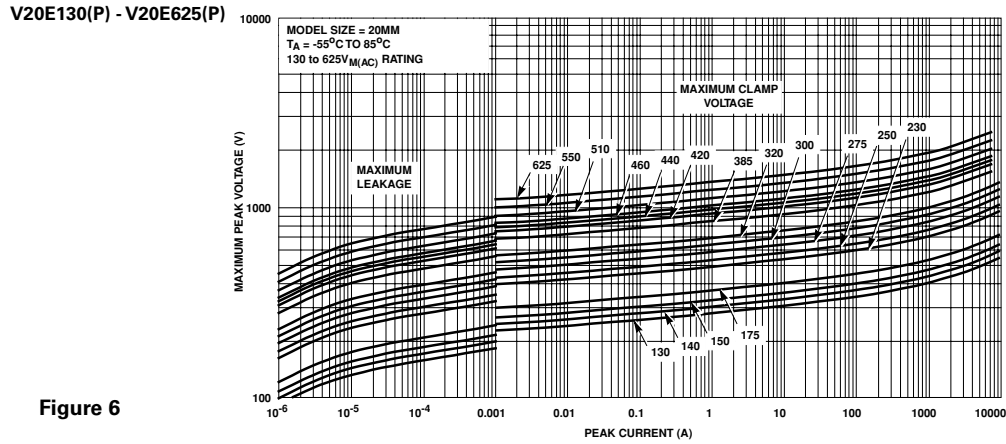


Figure 5

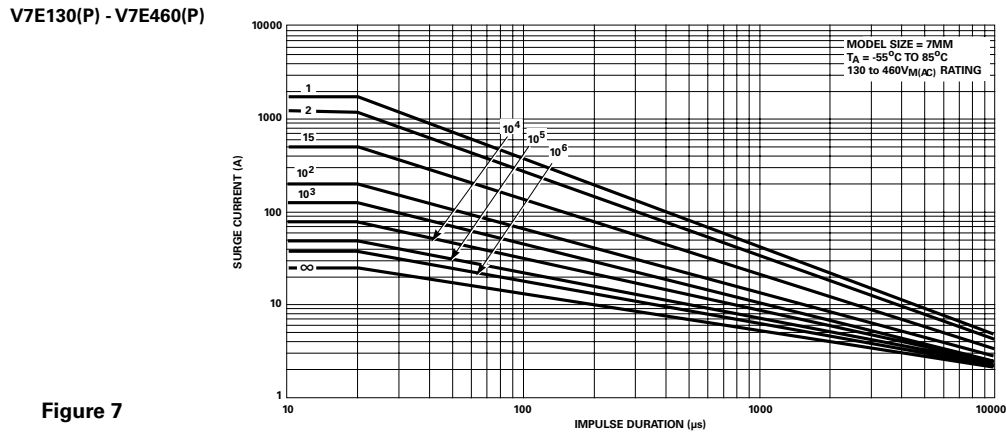
Transient V-I Characteristics Curves

Maximum Clamping Voltage for 20mm Parts



Pulse Rating Curves

Repetitive Surge Capability for 7mm Parts



Additional Information



Datasheet



Resources



Samples

Pulse Rating Curves

Repetitive Surge Capability for 10mm Parts

V10E130(P) - V10E625(P)

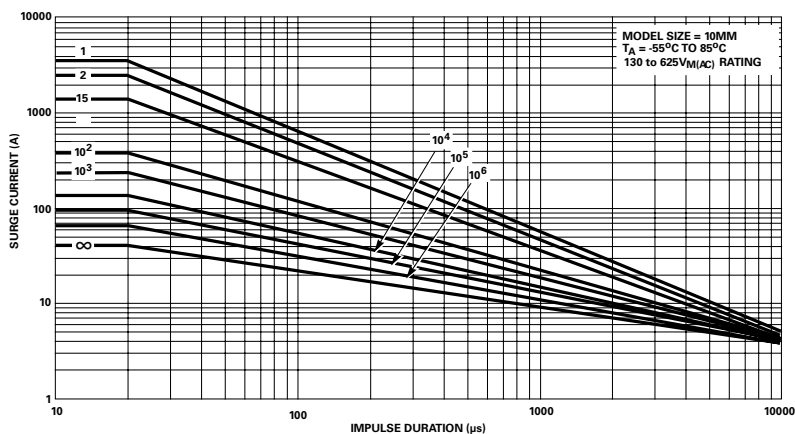


Figure 8

Repetitive Surge Capability for 14mm Parts

V14E130(P) - V14E625(P)

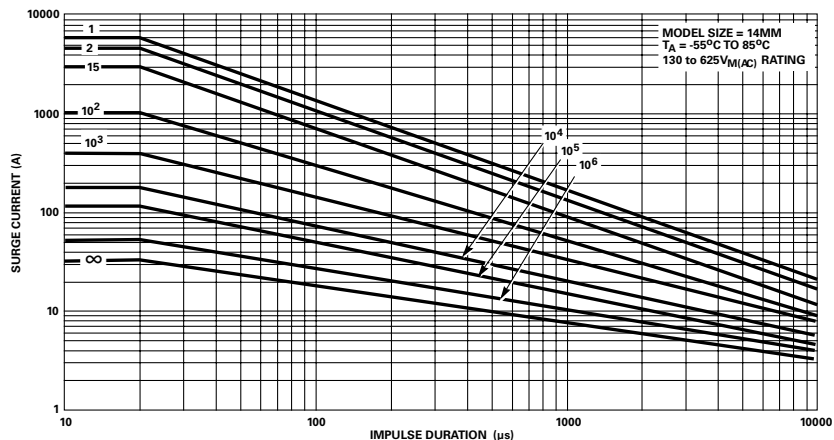


Figure 9

Repetitive Surge Capability for 20mm Parts

V20E130(P) - V20E625(P)

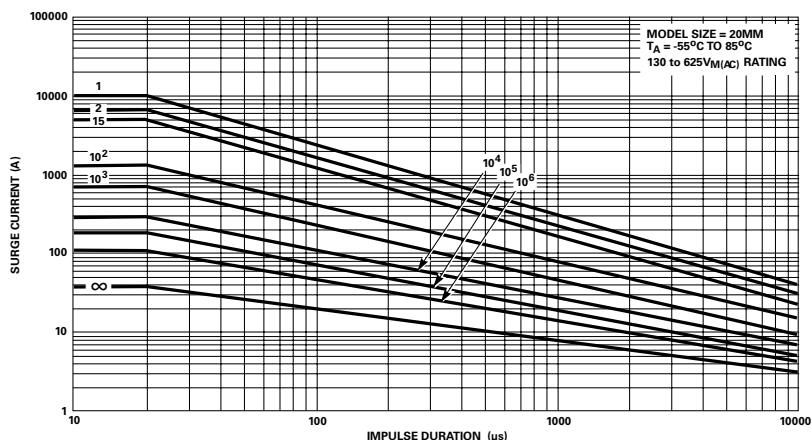
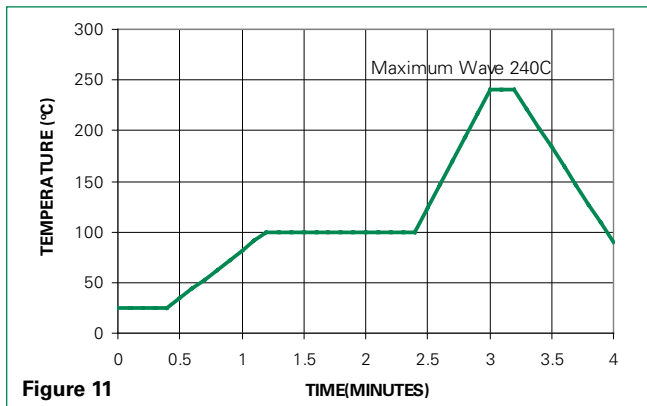


Figure 10

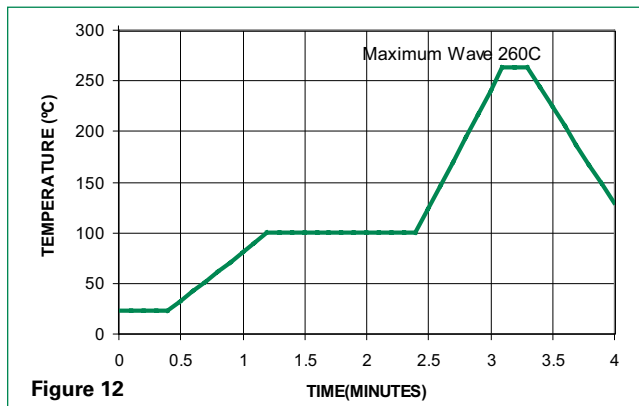
Note: Repetitive surge capability is qualified and tested based on 8/20μs current waveform (not combination waveform) and UL1449 40.7.3 (Edition 4) test condition.

Wave Solder Profile

Non Lead-free Profile



Lead-free Profile



Physical Specifications

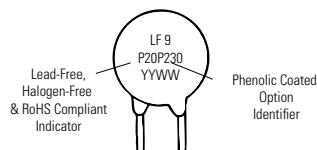
Lead Material	Copper Clad Steel Wire
Soldering Characteristics	Solderability per MIL-STD-202, Method 208
Insulating Material	Cured, flame retardant epoxy polymer meets UL94V-0 requirements
Device Labeling	Marked with LF, voltage, UL/CSA logos, and date code

Environmental Specifications

Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +125°C
Humidity Aging	+85°C, 85% RH, 1000 hours +/-10% typical voltage change
Thermal Shock	+85°C to -40°C 5 times +/-10% typical voltage change
Solvent Resistance	MIL-STD-202, Method 215
Moisture Sensitivity	Level 1, J-STD-020

Phenolic Coating Option -- UltraMOV® Varistor Series for Hi-Temperature Operating Conditions:

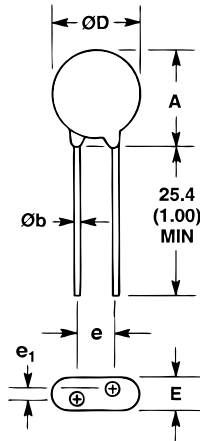
- Phenolic Coated UltraMOV® Varistor Series devices are available with improved maximum operating temperature 125°C.
- These devices also have improved temperature cycling performance capability.
- Ratings and Specifications are as per standard UltraMOV® Series except Hi-Pot Encapsulation (Isolation Voltage Capability) = 800V.
- Phenolic Coating is HALOGEN FREE. To order: change 'E' (Epoxy coating) in part number to 'P' (Phenolic coating; e.g. V20P230)
- See Part Numbering System section of this series for more information.
- Contact factory for further details.
- Product marking:



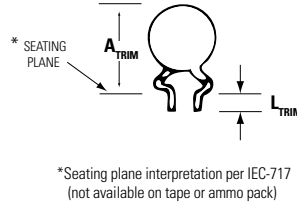
Note: 10mm, 14mm and 20mm devices are UL recognized and TUV certified with 800V isolation voltage rating.

Product Dimensions (mm)

Lead form options L1 and L3
(refer to table below)



Lead form options L2 and L4
(refer to table below)



Dimension	V _{RMS} Voltage Model	7mm Size		10mm Size		14mm Size		20mm Size	
		Min. mm (in)	Max. mm (in)	Min. mm (in)	Max. mm (in)	Min. mm (in)	Max. mm (in)	Min. mm (in)	Max. mm (in)
A	130-320	-	12 (0.472)	-	16 (0.630)	-	20 (0.787)	-	26.5 (1.043)
	385-625	-	13 (0.512)	-	17 (0.689)	-	20.5 (0.807)	-	28 (1.102)
ØD	All	-	9 (0.354)	-	12.5 (0.492)	-	17 (0.669)	-	23 (0.906)
e (Note 2)	All	4 (0.157)	6 (0.236)	6.5 (0.256)	8.5 (0.335)	6.5 (0.256)	8.5 (0.335)	9 (0.354)	11 (0.433)
e ₁ (Note 3)	130-320	1.5 (0.059)	3.5 (0.138)	1.5 (0.059)	3.5 (0.138)	1.5 (0.059)	3.5 (0.138)	1.5 (0.059)	3.5 (0.138)
	385-625	2.5 (0.098)	5.5 (0.217)	2.5 (0.098)	5.5 (0.217)	2.5 (0.098)	5.5 (0.217)	2.5 (0.098)	5.5 (0.217)
E	130-320	-	5.6 (0.220)	-	5.6 (0.220)	-	5.6 (0.220)	-	5.6 (0.220)
	385-510	-	7.3 (0.287)	-	7.3 (0.287)	-	7.3 (0.287)	-	7.3 (0.287)
	550-625	-	8.3 (0.327)	-	8.3 (0.327)	-	8.3 (0.327)	-	8.3 (0.327)
Ø b	All	0.585 (0.023)	0.685 (0.027)	0.76 (0.030)	0.86 (0.034)	0.76 (0.030)	0.86 (0.034)	0.76 (0.030) (Note 2)	0.86 (0.034) (Note 2)
A _{TRIM}	All	-	15 (0.591)	-	19.5 (0.768)	-	22.5 (0.886)	-	29.0 (1.142)
L (L2)	All	25.4 (1.00)	-	25.4 (1.00)	-	25.4 (1.00)	-	25.4 (1.00)	-
*L (L4)	All	2.41 (0.095)	4.69 (0.185)	2.41 (0.095)	4.69 (0.185)	2.41 (0.095)	4.69 (0.185)	2.41 (0.095)	4.69 (0.185)

Notes:

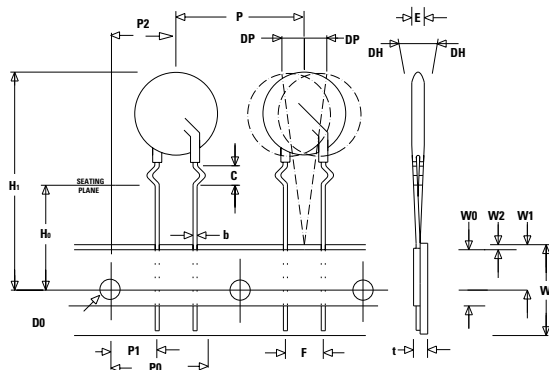
- Measurements displayed in Millimeters (Inches in parentheses).
- Standard lead space.
- For in-line lead option L3, dimension e₁ is "zero". Straight lead form option L1 shown.

*For information about bulk packaging quantities, please refer to the Ordering Notes section at the end of this document.

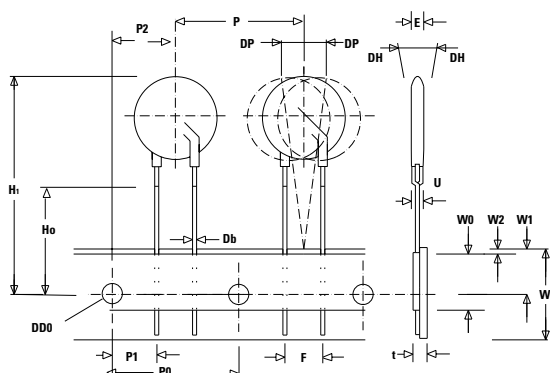
Tape Specifications for Reel and Ammo Pack Items (Refer to dimensions on following page)

7mm Devices

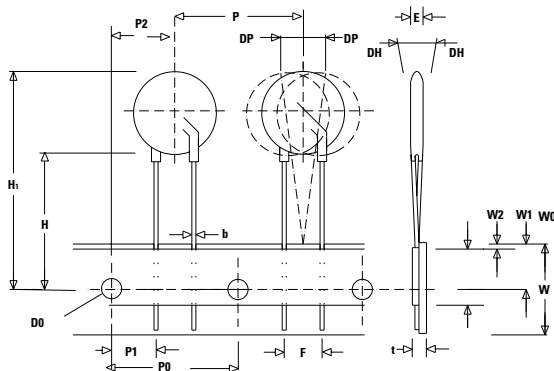
CRIMPED LEADS "L2"



INLINE LEADS "L3"

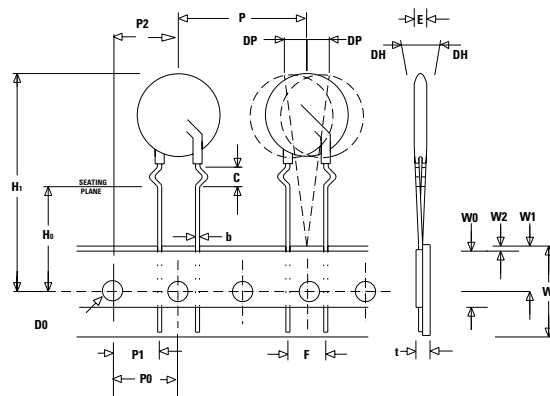


STRAIGHT LEADS "L1"

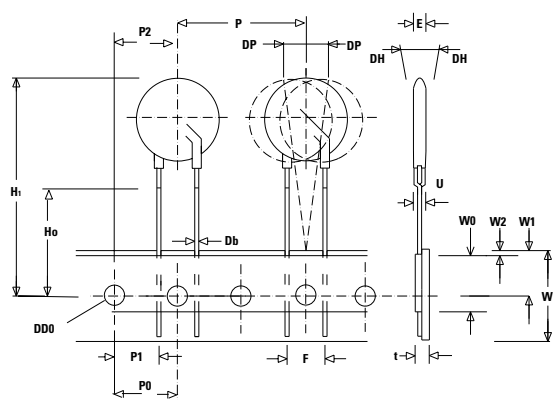


10, 14 and 20mm Devices

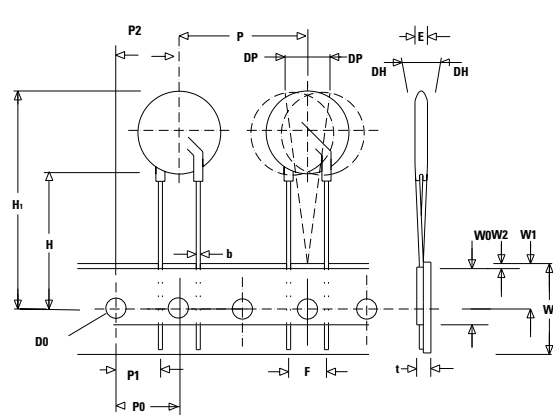
CRIMPED LEADS "L2"



INLINE LEADS "L3"



STRAIGHT LEADS "L1"



Tape Specifications for Reel and Ammo Pack Items (Refer to drawings on previous page)

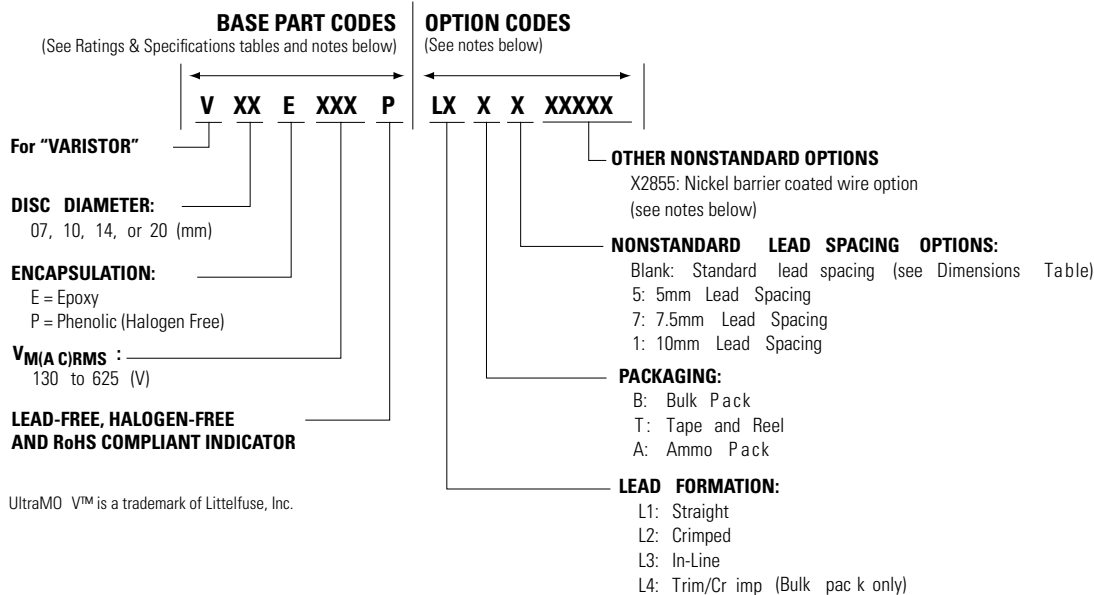
- Conforms to ANSI and EIA specifications.
- Can be supplied to IEC Publication 286-2.
- Radial devices on tape are offered with crimped leads, straight leads, or in-line leads. See Ordering Information.
- For 10mm devices 'P' (component pitch) is 12.7mm when 'F' (lead space) is 5mm.
- 7mm parts are available on tape and reel up to 460 VAC only
- 10mm parts are available on tape and reel up to 510 VAC only
- 14mm and 20mm parts are available on tape and reel up to 550 VAC only
- 7mm devices with 7.5mm lead spacing option will be taped at 25.4mm component pitch and 500 pieces per reel
- 10mm devices with 5.0mm lead spacing option will be taped at 12.7mm component pitch and 1000 pieces per reel

Symbol	Description	Model Size			
		7mm	10mm	14mm	20mm
B₁	Component Top to Seating Plane	15 Max	19.5 Max	22.5 Max	29 Max
C	Crimp Length	2.4 Typ	2.6 Typ	2.6 Typ	2.6 Typ
P	Pitch of Component	12.7 +/- 1.0	25.4 +/- 1.0	25.4 +/- 1.0	25.4 +/- 1.0
P₀	Feed Hole Pitch	12.7 +/- 0.2	12.7 +/- 0.2	12.7 +/- 0.2	12.7 +/- 0.2
P₁	Feed Hole Center to Pitch	3.85 +/- 0.7	8.85 +/- 0.7	8.85 +/- 0.7	7.70 +/- 0.7
P₂	Hole Center to Component Center	6.35 +/- 0.7	12.7 +/- 0.7	12.7 +/- 0.7	12.7 +/- 0.7
F	Lead to Lead Distance	5.0 +/- 0.8	7.5 +/- 0.8	7.5 +/- 0.8	10.0 +/- 0.8
Δh	Component Alignment	2.0 Max	2.0 Max	2.0 Max	2.0 Max
W	Tape Width	18.0 +1.0 / -0.5	18.0 +1.0 / -0.52	18.0 +1.0 / -0.5	18.0 +1.0 / -0.5
W₀	Hold Down Tape Width	12.0 +/- 0.3	12.0 +/- 0.3	12.0 +/- 0.3	12.0 +/- 0.3
W₁	Hole Position	9.0 +0.75 / -0.50	9.0 +0.75 / - 0.50	9.0 +0.75 / 0.50	9.0 +0.75 / -0.50
W₂	Hold Down Tape Position	0.5 Max	0.5 Max	0.5 Max	0.5 Max
H	Height from Tape Center to Component Base	18.0 +2.0 / -0.0	18.0 +2.0 / -0.0	18.0 +2.0 / -0.0	18.0 +2.0 / -0.0
H₀	Seating Plane Height	16.0 +/- 0.5	16.0 +/- 0.5	16.0 +/- 0.5	16.0 +/- 0.5
H₁	Component Height	32.0 Max	36.0 Max	40.0 Max	46.5 Max
D₀	Feed Hole Diameter	4.0 +/- 0.2	4.0 +/- 0.2	4.0 +/- 0.2	4.0 +/- 0.2
t	Total Tape Thickness	0.7 +/- 0.2	0.7 +/- 0.2	0.7 +/- 0.2	0.7 +/- 0.2
Δp	Component Alignment	3° Max, 1.00mm	3° Max, 1.00mm	3° Max, 1.00mm	3° Max, 1.00mm

*For information on tape and reel packaging quantities, please refer to the Ordering Notes section at the end of this document.

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Part Numbering System



Ordering Notes:

For standard parts, use the **BASE PART** designator only.

For parts with non-standard options (such as additional form, packaging and lead space options) use, **BASE PART + OPTION CODE**.

OPTION CODE items are subject to availability and minimum order requirements. Please contact a Littelfuse representative if you require additional information

OPTION CODES:

X2855: Nickel Barrier COATED WIRE OPTION

All standard parts use tinned copper clad steel wire. Nickel Barrier Coated Wire is available as an option, consisting of Copper Wire with a flashing of Nickel followed by a top coating of Tin.

To order: append standard model **BASE PART** number with "X2855." Example:

Standard Model	Order As
V20E320P	V20E320PX2855

PACKAGING:

Littelfuse UltraMOV® varistors are shipped standard in bulk pack with straight leads and lead spacing outlined in the dimensions sections of this document. Contact a Littelfuse representative to discuss non-standard options.

Standard Part Default Conditions

Device Size	Part #	Lead Space	Packaging
7mm	V07E-	5.0/+1	Bulk
10mm	V10E-	7.5/+1	Bulk
14mm	V14E-	7.5/+1	Bulk
20mm	V20E-	10.0/+1	Bulk

Standard Bulk Pack Quantity

Varistor Voltage	Standard Bulk Pack Quantity			
	Varistor Model Size			
	7mm	10mm	14mm	20mm
130 – 275	1500	1000	700	500
300 – 460	1500	700	600	400
510 – 625	1500	700	500	400

Tape & Reel Quantity

Varistor Voltage	Shipping Quantity Per Reel			
	7mm	10mm	14mm	20mm
130 – 275	1000	500	500	500
300 – 625	1000	500	400	400

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[V14P275P](#) [V14P150P](#) [V07P420P](#) [V14E275L1T1](#) [V10E320L2T](#) [V10E320PL2T](#) [V14P300L1T](#) [V14P300PL1T](#)
[V07E130P](#) [V07E150](#) [V07E150P](#) [V07E300L2B5](#) [V07E300P](#) [V07E385](#) [V07P385L2T5](#) [V07E140L1T](#) [V10E130P](#)
[V10E320](#) [V14P150](#) [V10E275](#) [V20E460](#) [V20E550](#) [V07E300](#) [V14E150L1T](#) [V14E300](#) [V14E320L2B](#) [V20E150L1T7](#)
[V20E510L2T7](#) [V14E385L1T5](#) [V20E625L2T1](#) [V14E130L2A](#) [V14E230](#) [V14E320L2T](#) [V20E275P](#) [V10E250](#) [V10E385](#)
[V14E320](#) [V20E175](#) [V20E250L2B1](#) [V20E440P](#) [V14E130](#) [V20E275L4B7](#) [V20E625L3T7](#) [V10E300L2T7](#) [V10E460P](#)
[V10E510P](#) [V14E150L2B](#) [V20E320L4B](#) [V20E550L4B7](#) [V14E150L4B](#) [V20E320P](#) [V20E625L4B](#) [V20E320](#)
[V07E130L3T](#) [V07E440P](#) [V10E275L1B5](#) [V10E300P](#) [V20E150L1T](#) [V07P420L2T](#) [V20E175P](#) [V20E230L1B1](#)
[V10E250P](#) [V14E300P](#) [V14P275L1T](#) [V20E150L4B7](#) [V20E300P](#) [V20E510](#) [V20E550L1T7](#) [V07E130L1T](#)
[V10E275L2B](#) [V10E250L1B5](#) [V10E420P](#) [V14E230P](#) [V20E420L1T](#) [V20E550L4B](#) [V10E130](#) [V10E140P](#) [V10E385P](#)
[V10E625L1B5](#) [V14E385](#) [V20E320L1B7](#) [V20E320L2B](#) [V14E150](#) [V14E275](#) [V14E385L2T](#) [V14E460P](#) [V20E275L1T7](#)
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[V20E150L2T1](#) [V14E130P](#) [V14E175](#) [V14E275L2B](#) [V14E625](#)