

PolySwitch Resettable Devices

Line-Voltage-Rated Devices

Table L1 — Product Series - Current Rating, Voltage Rating/Typical Resistance

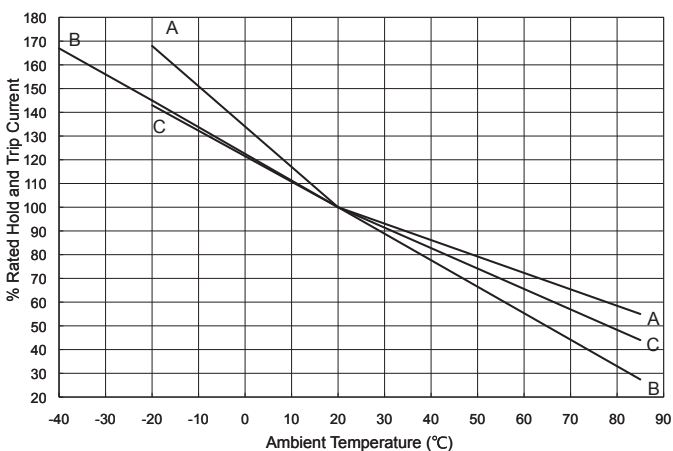
Voltage Rating	LVR 240V _{AC} / 120V _{AC}	LVB 240V _{AC}
Hold Current (A)		
0.050	25.00Ω	—
0.080	9.800Ω	—
0.120	4.800Ω	—
0.160	3.400Ω	—
0.250	1.700Ω	—
0.330	1.000Ω	—
0.400	0.800Ω	—
0.550	0.590Ω	—
0.750	0.400Ω	—
1.000	0.276Ω	—
1.250	0.209Ω	0.209Ω
1.350	—	—
2.000	0.110Ω	—

Table L2 — Thermal Derating [Hold Current (A) at Ambient Temperature (°C)]

Part Number	Maximum Ambient Temperature								
	-20°C	0°C	20°C	25°C	40°C	50°C	60°C	70°C	85°C
LVR									
LVR005N	0.08	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02
LVR008N	0.12	0.10	0.08	0.08	0.07	0.06	0.05	0.04	0.03
LVR012	0.18	0.15	0.12	0.12	0.10	0.09	0.07	0.06	0.04
LVR016	0.24	0.20	0.16	0.16	0.13	0.11	0.10	0.08	0.05
LVR025	0.38	0.32	0.25	0.25	0.21	0.18	0.15	0.13	0.09
LVR033	0.50	0.42	0.33	0.33	0.27	0.23	0.20	0.17	0.11
LVR040	0.61	0.51	0.40	0.40	0.33	0.28	0.24	0.20	0.14
LVR055	0.80	0.68	0.55	0.54	0.46	0.40	0.35	0.29	0.22
LVR075	1.23	0.98	0.75	0.74	0.60	0.56	0.49	0.45	0.41
LVR100	1.65	1.30	1.00	0.94	0.80	0.75	0.65	0.60	0.55
LVR125	2.06	1.63	1.25	1.20	1.00	0.94	0.81	0.75	0.69
LVR200	3.30	2.60	2.00	1.97	1.60	1.50	1.30	1.20	1.10
LVR075-240	1.23	0.98	0.75	0.74	0.60	0.56	0.49	0.45	0.41
LVR100-240	1.65	1.30	1.00	0.94	0.80	0.75	0.65	0.60	0.55
LVR125-240	2.06	1.63	1.25	1.20	1.00	0.94	0.81	0.75	0.69
LVR200-240	3.30	2.60	2.00	1.97	1.60	1.50	1.30	1.20	1.10
LVB									
LVB125	2.09	1.81	1.53	1.25	1.19	0.99	0.86	0.73	0.60

Figure L1 — Thermal Derating Curve

- A = LVR075-LVR200
 B = LVB125
 C = LVR005N-LVR055



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Table L3 — Electrical Characteristics*

Part Number	I _H (A)	I _T (A)	V _{MAX} [†]		I _{MAX} [†]	P _{D Typ} (W)	Max. Time-to-trip		R _{MIN} (Ω)	R _{MAX} (Ω)	R _{1MAX} (Ω)	Lead Size [mm (AWG)]
			Operating (V _{AC})	Interrupt (V _{AC})	Interrupt (A)		(A)	(s)				
LVR												
LVR005NK	0.05	0.12	240 120	265 135	1.0 20.0	0.9	0.25	10.0	18.500	31.000	65.000	[0.51mm (24)]
LVR005NS	0.05	0.12	240 120	265 135	1.0 20.0	0.9	0.25	10.0	18.500	31.000	65.000	[0.51mm (24)]
LVR008NK	0.08	0.19	240 120	265 135	1.2 20.0	0.9	0.40	10.0	7.400	12.000	26.000	[0.51mm (24)]
LVR008NS	0.08	0.19	240 120	265 135	1.2 20.0	0.9	0.40	10.0	7.400	12.000	26.000	[0.51mm (24)]
LVR012K	0.12	0.30	240 120	265 135	1.2 20.0	1.0	0.60	15.0	3.000	6.500	12.000	[0.51mm (24)]
LVR012S	0.12	0.30	240 120	265 135	1.2 20.0	1.0	0.60	15.0	3.000	6.500	12.000	[0.51mm (24)]
LVR016K	0.16	0.37	240 120	265 135	2.0 20.0	1.4	0.80	15.0	2.500	4.100	7.800	[0.51mm (24)]
LVR016S	0.16	0.37	240 120	265 135	2.0 20.0	1.4	0.80	15.0	2.500	4.100	7.800	[0.51mm (24)]
LVR025K	0.25	0.56	240 120	265 135	3.5 20.0	1.5	1.25	18.5	1.300	2.100	3.800	[0.64mm (22)]
LVR025S	0.25	0.56	240 120	265 135	3.5 20.0	1.5	1.25	18.5	1.300	2.100	3.800	[0.64mm (22)]
LVR033K	0.33	0.74	240 120	265 135	4.5 20.0	1.7	1.65	21.0	0.770	1.240	2.600	[0.64mm (22)]
LVR033S	0.33	0.74	240 120	265 135	4.5 20.0	1.7	1.65	21.0	0.770	1.240	2.600	[0.64mm (22)]
LVR040K	0.40	0.90	240 120	265 135	5.5 20.0	2.0	2.00	24.0	0.600	0.970	1.900	[0.64mm (22)]
LVR040S	0.40	0.90	240 120	265 135	5.5 20.0	2.0	2.00	24.0	0.600	0.970	1.900	[0.64mm (22)]
LVR055K	0.55	1.25	240 120	265 135	7.0 20.0	3.4	2.75	26.0	0.450	0.730	1.450	[0.81mm (20)]
LVR055S	0.55	1.25	240 120	265 135	7.0 20.0	3.4	2.75	26.0	0.450	0.730	1.450	[0.81mm (20)]
LVR075S	0.75	1.50	240	265	7.5	2.6	3.75	18.0	0.316	0.483	0.839	[0.81mm (20)]
LVR100S	1.00	2.00	240	265	10.0	2.9	5.00	21.0	0.218	0.334	0.580	[0.81mm (20)]
LVR125S	1.25	2.50	240	265	12.5	3.3	6.25	23.0	0.165	0.253	0.440	[0.81mm (20)]
LVR200S	2.00	4.00	240	265	20.0	4.5	10.00	28.0	0.089	0.131	0.221	[0.81mm (20)]
LVR075S-240	0.75	1.50	240	265	7.5	2.6	3.75	18.0	0.316	0.483	0.839	[0.81mm (20)]
LVR100S-240	1.00	2.00	240	265	10.0	2.9	5.00	21.0	0.218	0.334	0.580	[0.81mm (20)]
LVR125S-240	1.25	2.50	240	265	12.5	3.3	6.25	23.0	0.165	0.253	0.440	[0.81mm (20)]
LVR200S-240	2.00	4.00	240	265	20.0	4.5	10.00	28.0	0.089	0.131	0.221	[0.81mm (20)]
LVR075K-240	0.75	1.50	240	265	7.5	2.6	3.75	18.0	0.316	0.483	0.839	[0.81mm (20)]
LVR100K-240	1.00	2.00	240	265	10.0	2.9	5.00	21.0	0.218	0.334	0.580	[0.81mm (20)]
LVR125K-240	1.25	2.50	240	265	12.5	3.3	6.25	23.0	0.165	0.253	0.440	[0.81mm (20)]
LVR200K-240	2.00	4.00	240	265	20.0	4.5	10.00	28.0	0.089	0.131	0.221	[0.81mm (20)]
LVB												
LVB125	1.25	2.50	240	265	12.5	4.0	8.00	5.0	0.152	0.292	0.482	[0.81mm (20)]

Notes:

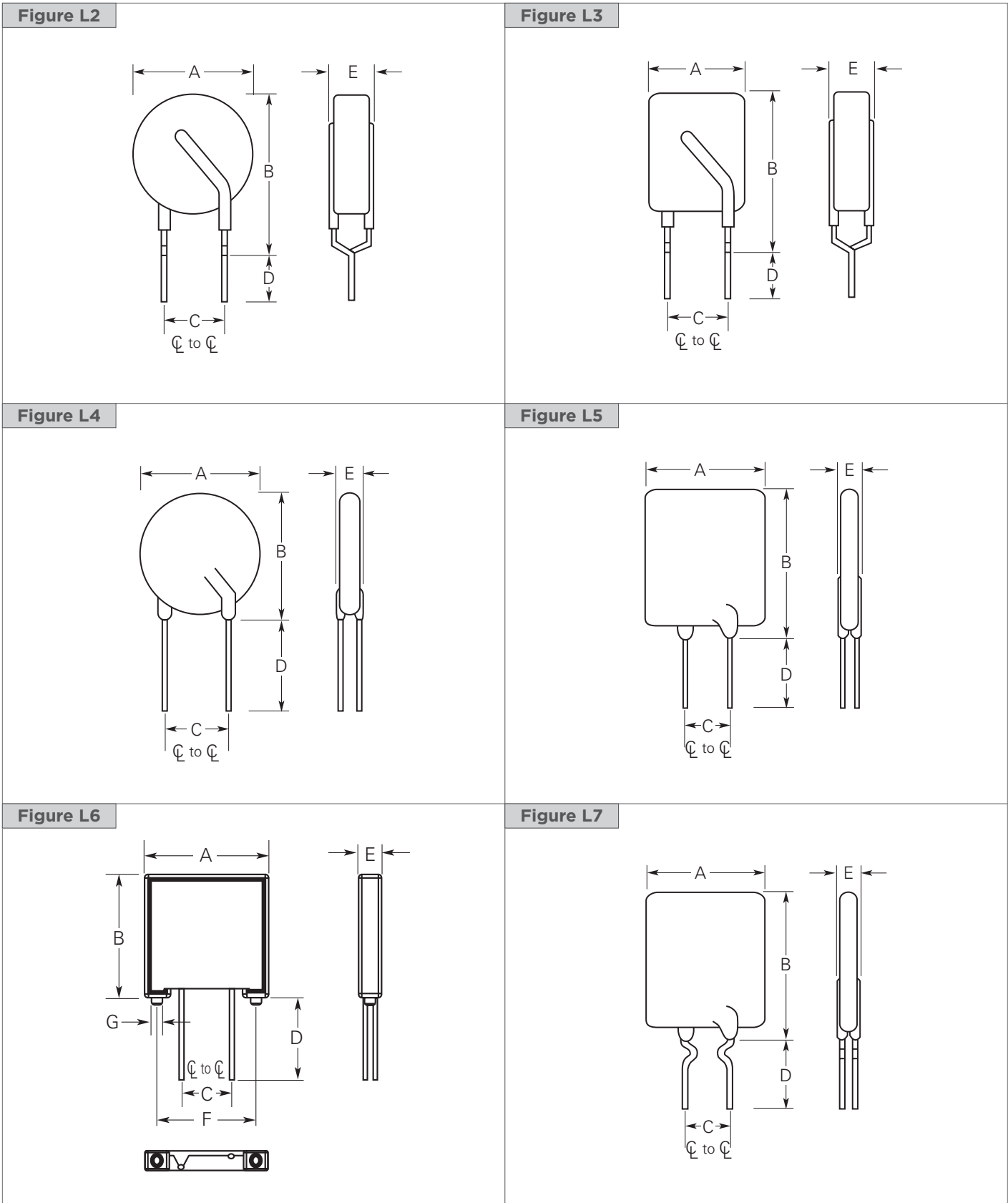
- I_H : Hold current: maximum current device will pass without interruption in 20°C still air.
- I_T : Trip current: minimum current that will switch the device from low resistance to high resistance in 20°C still air.
- V_{MAX} Operating: Maximum continuous voltage device can withstand without damage at rated current.
- V_{MAX} Interrupt : Under specified conditions this is the highest voltage that can be applied to the device at the maximum interrupt current.
- I_{MAX} Interrupt : Maximum fault current device can withstand without damage at rated voltage.
- P_D : Power dissipated from device when in the tripped state in 20°C still air.
- R_{MIN} : Minimum resistance of device as supplied at 20°C unless otherwise specified.
- R_{MAX} : Maximum resistance of device as supplied at 20°C unless otherwise specified.
- R_{1MAX} : Maximum resistance of device when measured one hour post trip at 20°C unless otherwise specified.

* Electrical characteristics determined at 20°C.

† See Application Limitations on next page.

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Figures L2-L7 — Dimension Figures



PolySwitch Resettable Devices

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Table L4 — Dimensions and Weights - Millimeters (Inches)

Part Number	A		B		C		D		E		Figure	Device Mass(g) (Only for Reference)			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max					
LVR															
LVR005NK	—	6.9 (0.27)	—	12.1 (0.48)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.6 (0.18)	L2	0.177			
LVR005NS	—	6.9 (0.27)	—	9.9 (0.39)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.6 (0.18)	L4	0.211			
LVR008NK	—	7.2 (0.28)	—	12.4 (0.49)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.6 (0.18)	L2	0.233			
LVR008NS	—	7.2 (0.28)	—	10.2 (0.40)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.6 (0.18)	L4	0.211			
LVR012K	—	8.3 (0.33)	—	12.9 (0.51)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L2	0.231			
LVR012S	—	8.3 (0.33)	—	10.7 (0.43)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L4	0.235			
LVR016K	—	9.9 (0.39)	—	13.8 (0.54)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L2	0.253			
LVR016S	—	9.9 (0.39)	—	12.5 (0.50)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L4	0.291			
LVR025K	—	9.6 (0.38)	—	18.8 (0.74)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L3	0.508			
LVR025S	—	9.6 (0.38)	—	17.4 (0.69)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L5	0.472			
LVR033K	—	11.4 (0.45)	—	19.0 (0.75)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L3	0.628			
LVR033S	—	11.4 (0.45)	—	16.5 (0.65)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L5	0.600			
LVR040K	—	11.5 (0.46)	—	20.9 (0.82)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L3	0.698			
LVR040S	—	11.5 (0.46)	—	19.5 (0.77)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	3.8 (0.15)	L5	0.688			
LVR055K	—	14.0 (0.55)	—	22.4 (0.88)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.1 (0.16)	L3	1.100			
LVR055S	—	14.0 (0.55)	—	21.7 (0.85)	4.3 (0.17)	5.8 (0.23)	7.6 (0.30)	—	—	4.1 (0.16)	L5	1.060			
LVR075S	—	11.5 (0.45)	—	23.4 (0.92)	4.1 (0.16)	6.1 (0.24)	5.1 (0.20)	—	—	4.8 (0.19)	L5	1.088			
LVR100S	—	18.7 (0.74)	—	24.4 (0.96)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	5.1 (0.20)	L4	1.345			
LVR125S	—	21.2 (0.84)	—	27.4 (1.08)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	5.3 (0.21)	L4	1.800			
LVR200S	—	24.9 (0.98)	—	33.8 (1.33)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	6.1 (0.24)	L5	2.777			
LVR075S-240	—	11.5 (0.45)	—	23.4 (0.92)	4.1 (0.16)	6.1 (0.24)	5.1 (0.20)	—	—	4.8 (0.19)	L5	1.088			
LVR100S-240	—	18.7 (0.74)	—	24.4 (0.96)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	5.1 (0.20)	L4	1.345			
LVR125S-240	—	21.2 (0.84)	—	27.4 (1.08)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	5.3 (0.21)	L4	1.800			
LVR200S-240	—	24.9 (0.98)	—	33.8 (1.33)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	—	6.1 (0.24)	L5	2.777			
LVR075K-240	—	11.5 (0.45)	—	25.4 (1.00)	4.1 (0.16)	6.1 (0.24)	7.6 (0.30)	—	—	4.1 (0.16)	L3	1.088			
LVR100K-240	—	18.7 (0.74)	—	28.8 (1.13)	8.9 (0.35)	11.4 (0.45)	7.6 (0.30)	—	—	4.1 (0.16)	L2	1.345			
LVR125K-240	—	21.2 (0.84)	—	31.8 (1.25)	8.9 (0.35)	11.4 (0.45)	7.6 (0.30)	—	—	4.1 (0.16)	L2	1.800			
LVR200K-240	—	24.9 (0.98)	—	34.80 (1.37)	8.9 (0.35)	11.4 (0.45)	7.6 (0.30)	—	—	4.1 (0.16)	L7	2.777			
LVB															
LVB125	24.8 (0.98)	25.2 (.099)	26.8 (1.06)	27.2 (1.07)	8.9 (0.35)	11.4 (0.45)	5.1 (0.20)	—	4.2 (0.17)	4.6 (0.18)	20.0 (0.79)	20.3 (0.80)	— (0.80)	L6	1.653

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Figure L8 — Typical Time-to-Trip Curves at 20°C

LVR/LVB

- A = LVR005N
- B = LVR008N
- C = LVR012
- D = LVR016
- E = LVR025
- F = LVR033
- G = LVR040
- H = LVR055
- I = LVR075/LVR075-240
- J = LVR100/LVR100-240
- K = LVR125/LVR125-240
- L = LVB125
- M = LVR200/LVR200-240

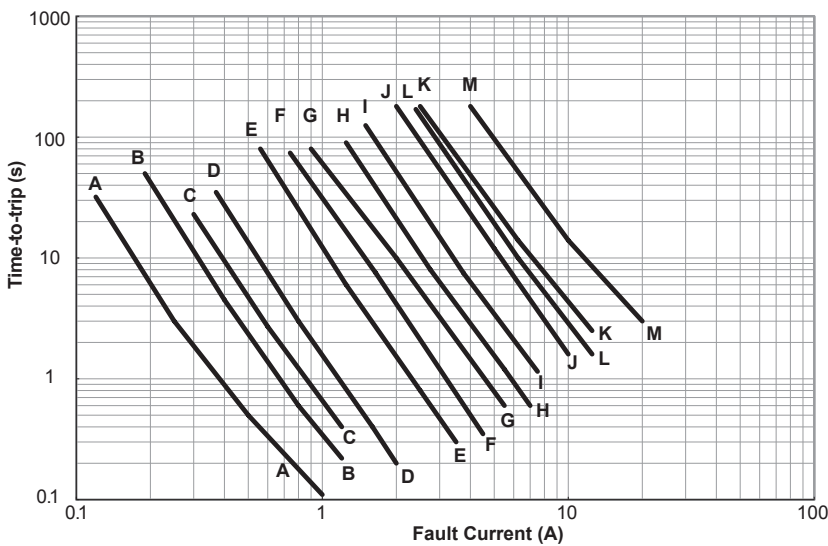


Table L5 — Physical Characteristics and Environmental Specifications

LVR/LVB		
Physical Characteristics		
Lead Material	LVR005N to LVR016	: Tin-plated Copper, (24AWG), ø0.51mm (0.020in)
	LVR025 to LVR040	: Tin-plated Copper, (22AWG), ø0.64mm (0.025in)
	LVR055 to LVR200	: Tin-plated Copper, (20AWG), ø0.81mm (0.032in)
	LVR075-240 to LVR200-240	: Tin-plated Copper, (20AWG), ø0.81mm (0.032in)
	LVB125	: Tin-plated Copper, (20AWG), ø0.81mm (0.032in)
Soldering Characteristics	Solderability per ANSI/J-STD-002 Category 3	
Solder Heat Withstand	Per IEC-STD 68-2-20, Test Tb, Method 1A, Condition B, Can Withstand 10 s at 260°C ±5°C	
Insulating Material	LVR005N to LVR055	: Cured, Flame-retardant Epoxy Polymer, Meets UL 94V-0
	LVR075 to LVR200	: Cured, Flame-retardant Modified Silicone, Meets UL 94V-0
	LVR075-240 to LVR200-240	: Cured, Flame-retardant Epoxy Polymer, Meets UL 94V-0
	LVB125	: Glass Reinforced PBT, Meets UL 94V-0
Note: Devices are not intended to be placed through a reflow process.		
Environmental Specifications		
Test	Conditions	Resistance Change
Passive Aging	70°C, 1000 hrs	±10%
	85°C, 1000 hrs	±10%
Humidity Aging	85°C, 85% RH, 1000 hrs	±20%
Thermal Shock	85°C, -40°C (10 Times)	±15%
Solvent Resistance	MIL-STD-202, Method 215F	No Change

Agency Recognitions

UL	File # E74889
CSA	File # CA78165
TÜV	Certificate Number Available on Request (per IEC 60730-1).

PolySwitch Resettable Devices

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Table L6 — Packaging and Marking Information

Part Number	Bag Quantity	Tape and Reel Quantity	Ammo Pack Quantity	Standard Package Quantity	Part Marking	Agency Recognition
LVR/LVB						
LVR005NK	500	—	—	10,000	L005	UL, CSA, TÜV, CQC
LVR005NK-2	—	1,500	—	7,500	L005	UL, CSA, TÜV, CQC
LVR005NS	500	—	—	10,000	L005	UL, CSA, TÜV, CQC
LVR005NS-2	—	1,500	—	7,500	L005	UL, CSA, TÜV, CQC
LVR008NK	500	—	—	10,000	L008	UL, CSA, TÜV, CQC
LVR008NK-2	—	1,500	—	7,500	L008	UL, CSA, TÜV, CQC
LVR008NS	500	—	—	10,000	L008	UL, CSA, TÜV, CQC
LVR008NS-2	—	1,500	—	7,500	L008	UL, CSA, TÜV, CQC
LVR012K	500	—	—	10,000	L012	UL, CSA, TÜV, CQC
LVR012K-2	—	2,000	—	10,000	L012	UL, CSA, TÜV, CQC
LVR012S	500	—	—	10,000	L012	UL, CSA, TÜV, CQC
LVR012S-2	—	2,000	—	10,000	L012	UL, CSA, TÜV, CQC
LVR016K	500	—	—	10,000	L016	UL, CSA, TÜV, CQC
LVR016K-2	—	2,000	—	10,000	L016	UL, CSA, TÜV, CQC
LVR016S	500	—	—	10,000	L016	UL, CSA, TÜV, CQC
LVR016S-2	—	2,000	—	10,000	L016	UL, CSA, TÜV, CQC
LVR025K	500	—	—	10,000	L025	UL, CSA, TÜV, CQC
LVR025K-2	—	2,000	—	10,000	L025	UL, CSA, TÜV, CQC
LVR025S	500	—	—	10,000	L025	UL, CSA, TÜV, CQC
LVR025S-2	—	2,000	—	10,000	L025	UL, CSA, TÜV, CQC
LVR033K	500	—	—	10,000	L033	UL, CSA, TÜV, CQC
LVR033K-2	—	2,000	—	10,000	L033	UL, CSA, TÜV, CQC
LVR033S	500	—	—	10,000	L033	UL, CSA, TÜV, CQC
LVR033S-2	—	2,000	—	10,000	L033	UL, CSA, TÜV, CQC
LVR040K	500	—	—	10,000	L040	UL, CSA, TÜV, CQC
LVR040K-2	—	2,000	—	10,000	L040	UL, CSA, TÜV, CQC
LVR040S	500	—	—	10,000	L040	UL, CSA, TÜV, CQC
LVR040S-2	—	2,000	—	10,000	L040	UL, CSA, TÜV, CQC
LVR055K	500	—	—	10,000	L055	UL, CSA, TÜV, CQC
LVR055S	500	—	—	10,000	L055	UL, CSA, TÜV, CQC
LVR055S-2	—	1,000	—	5,000	L055	UL, CSA, TÜV, CQC
LVR075S	500	—	—	10,000	L075	UL, CSA, TÜV, CQC
LVR100S	250	—	—	5,000	L100	UL, CSA, TÜV, CQC
LVR125S	250	—	—	5,000	L125	UL, CSA, TÜV, CQC
LVR200S	250	—	—	5,000	L200	UL, CSA, TÜV, CQC
LVR075S-240	500	—	—	10,000	L075	UL, CSA, TÜV, CQC
LVR075S-240-2	—	1,000	—	5,000	L075	UL, CSA, TÜV, CQC
LVR075S-240-AP	—	—	1,000	5,000	L075	UL, CSA, TÜV, CQC
LVR100S-240	250	—	—	5,000	L100	UL, CSA, TÜV, CQC
LVR100S-240-2	—	1,000	—	5,000	L100	UL, CSA, TÜV, CQC
LVR100S-240-AP	—	—	1,000	5,000	L100	UL, CSA, TÜV, CQC
LVR125S-240	250	—	—	5,000	L125	UL, CSA, TÜV, CQC
LVR125S-240-2	—	1,000	—	5,000	L125	UL, CSA, TÜV, CQC
LVR125S-240-AP	—	—	1,000	5,000	L125	UL, CSA, TÜV, CQC
LVR200S-240	250	—	—	5,000	L200	UL, CSA, TÜV, CQC
LVR200S-240-2	—	1,000	—	5,000	L200	UL, CSA, TÜV, CQC
LVR200S-240-AP	—	—	1,000	5,000	L200	UL, CSA, TÜV, CQC
LVR075K-240	500	—	—	10,000	L075	UL, CSA, TÜV, CQC
LVR075K-240-2	—	1,000	—	5,000	L075	UL, CSA, TÜV, CQC
LVR075K-240-AP	—	—	1,000	5,000	L075	UL, CSA, TÜV, CQC
LVR100K-240	250	—	—	5,000	L100	UL, CSA, TÜV, CQC
LVR100K-240-2	—	1,000	—	5,000	L100	UL, CSA, TÜV, CQC
LVR100K-240-AP	—	—	1,000	5,000	L100	UL, CSA, TÜV, CQC
LVR125K-240	250	—	—	5,000	L125	UL, CSA, TÜV, CQC
LVR125K-240-2	—	1,000	—	5,000	L125	UL, CSA, TÜV, CQC
LVR125K-240-AP	—	—	1,000	5,000	L125	UL, CSA, TÜV, CQC
LVR200K-240	250	—	—	5,000	L200	UL, CSA, TÜV, CQC
LVR200K-240-2	—	1,000	—	5,000	L200	UL, CSA, TÜV, CQC
LVR200K-240-AP	—	—	1,000	5,000	L200	UL, CSA, TÜV, CQC
LVB125	250	—	—	5,000	B125	UL

PolySwitch Resettable Devices

Line-Voltage-Rated Devices

Table L7 — Tape and Reel Specifications

LVR devices are available in tape and reel packaging per EIA468-B/IEC60286-2 standards.

Description	EIA Mark	Dimension (mm)	Tolerance
Carrier Tape Width	W	18	-0.5/+1.0
Hold-down Tape Width	W ₄	11	Minimum
Top Distance between Tape Edges	W ₆	3	Maximum
Sprocket Hole Position	W ₅	9	-0.5/+0.75
Sprocket Hole Diameter	D ₀	4	± 0.2
Abscissa to Plane (Straight Lead) (LVR005N to LVR200)	H	18.5	± 2.5
Abscissa to Plane (Kinked Lead) (LVR005N to LVR055)	H ₀	16.0	± 0.5
Abscissa to Top (LVR005N to LVR016)	H ₁	32.2	Maximum
Abscissa to Top* (LVR025 to LVR200)	H ₁	45.0	Maximum
Overall Width with Lead Protrusion (LVR005N to LVR016)	C ₁	43.2	Maximum
Overall Width with Lead Protrusion (LVR025 to LVR200)	C ₁	56.0	Maximum
Overall Width without Lead Protrusion (LVR005N to LVR016)	C ₂	42.5	Maximum
Overall Width without Lead Protrusion (LVR025 to LVR200)	C ₂	56.0	Maximum
Lead Protrusion	L ₁	1.0	Maximum
Protrusion of Cut-out	L	11.0	Maximum
Protrusion beyond Hold-down Tape	I ₂	Not Specified	—
Sprocket Hole Pitch	P ₀	12.7	± 0.3
Device Pitch (LVR005N to LVR040)	—	12.7	± 0.3
Device Pitch (LVR055 to LVR200)	—	25.4	± 0.6
Pitch Tolerance	—	20 Consecutive	± 1
Tape Thickness	t	0.9	Maximum
Overall Tape and Lead Thickness (LVR005N to LVR040)	t ₁	1.5	Maximum
Overall Tape and Lead Thickness (LVR055 to LVR200)	t ₁	2.3	Maximum
Splice Sprocket Hole Alignment	—	0	± 0.3
Body Lateral Deviation	Dh	0	± 1.0
Body Tape Plane Deviation	Dp	0	± 1.3
Ordinate to Adjacent Component Lead	P ₁	3.81	± 0.7
Lead Spacing*	F	5.08	+0.75/-0.5
Reel Width (LVR005N to LVR040)	W ₂	56.0	Maximum
Reel Width* (LVR055 to LVR200)	W ₂	63.5	Maximum
Reel Diameter	a	370.0	Maximum
Space between Flanges* (LVR005N to LVR040)	W ₁	48.0	Maximum
Space between Flanges* (LVR055 to LVR200)	W ₁	55.0	Maximum
Arbor Hold Diameter	c	26.0	± 12.0
Core Diameter*	n	91.0	Maximum
Box	—	64/372/362	Maximum
Consecutive Missing Places	—	None	—
Empty Places per Reel	—	0.1%	Maximum

*Differs from EIA specification.

PolySwitch Resettable Devices

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Figure L9 — EIA Referenced Taped Component Dimensions

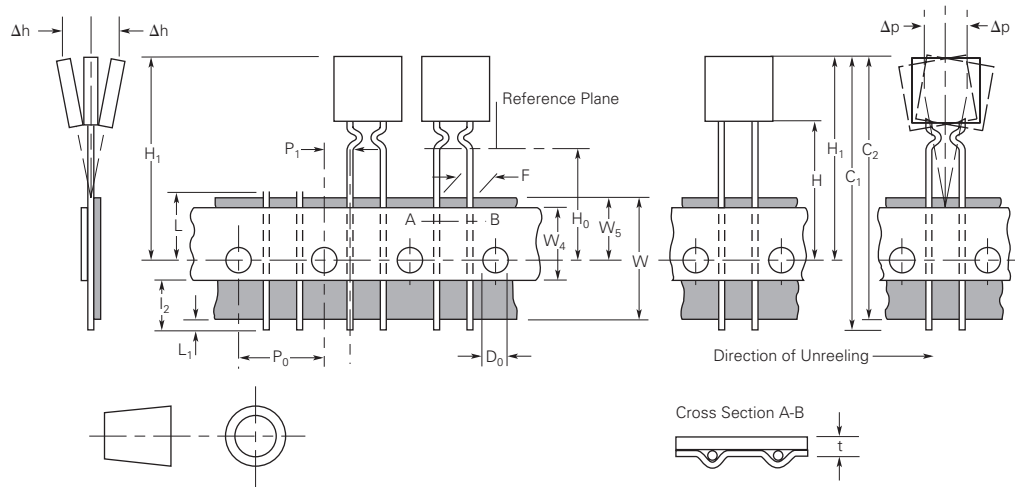
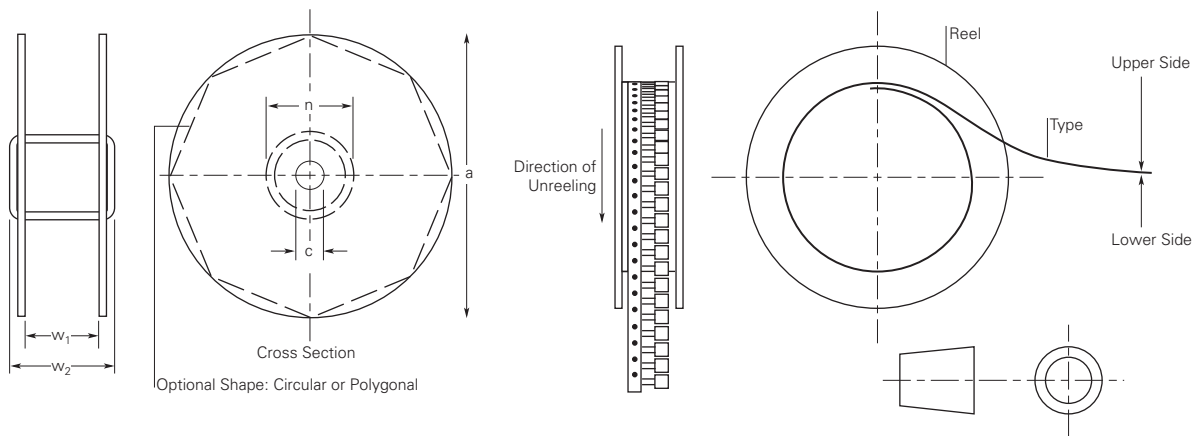


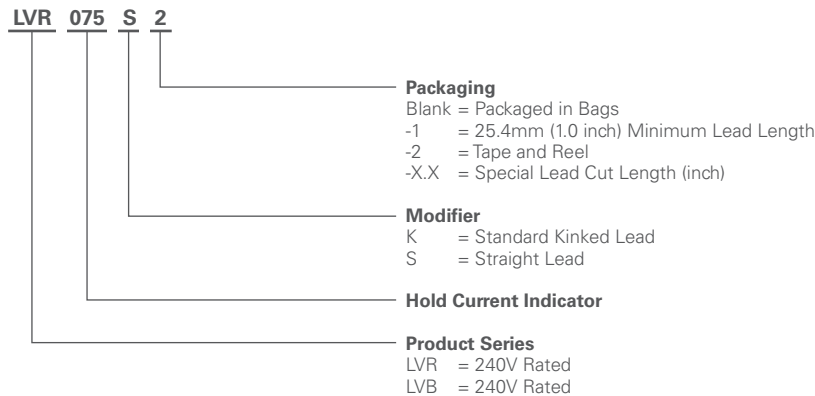
Figure L10 — EIA Referenced Reel Dimensions



PolySwitch Resettable Devices

Line-Voltage-Rated Devices

Part Numbering System



Warning : Application Limitations for the LVR Product Line

- Users should independently evaluate the suitability of and test each product selected for their own application.
- This product should not be used in an application where the maximum interrupt voltage or maximum interrupt current can be exceeded in a fault condition. Operation beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
- A PPTC device is not a fuse - it is a nonlinear thermistor that limits current. Under a fault condition all PPTC devices go into a high-resistance state but do not open circuit, so hazardous voltage may be present at PPTC locations.
- The devices are intended for protection against damage caused by occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- In most applications power must be removed and the fault condition cleared in order to reset a PPTC device; however under certain unusual conditions, a PPTC device may automatically reset. PPTC devices should not be used in an application where an automatic reset could create a safety hazard, such as garbage disposals and blenders. Appropriate qualification testing should be performed.
- It is the responsibility of the user to determine the need for back-up or failsafe protection to prevent damage that may occur in the event of abnormal function or failure of the PPTC device.
- Operation in circuits with a large inductance can generate a circuit voltage ($L di/dt$) above the rated voltage of a PPTC device. This product should not be used in an application where the maximum interrupt voltage or maximum interrupt current can be exceeded by inductive spikes.
- Devices are not recommended for reflow soldering.
- Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, or mechanical procedures for electronic components.
- *PPTC devices are not recommended for installation in applications where the device is constrained such that its PTC properties are inhibited, for example in rigid potting materials or in rigid housings, which lack adequate clearance to accommodate device expansion.
- *Contamination of the PPTC material with certain silicone-based oils or some aggressive solvents can adversely impact the performance of the devices.

*Does not apply for LVB devices.

Notice:

Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable Littelfuse product documentation. Warranties granted by Littelfuse shall be deemed void for products used for any purpose not expressly set forth in applicable Littelfuse documentation. Littelfuse shall not be liable for any claims or damages arising out of products used in applications not expressly intended by Littelfuse as set forth in applicable Littelfuse documentation. The sale and use of Littelfuse products is subject to Littelfuse Terms and Conditions of Sale, unless otherwise agreed by Littelfuse.