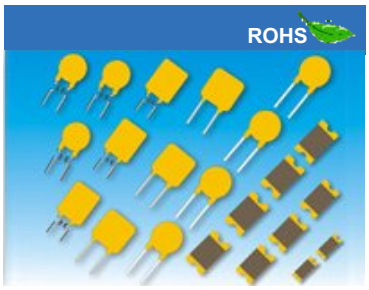
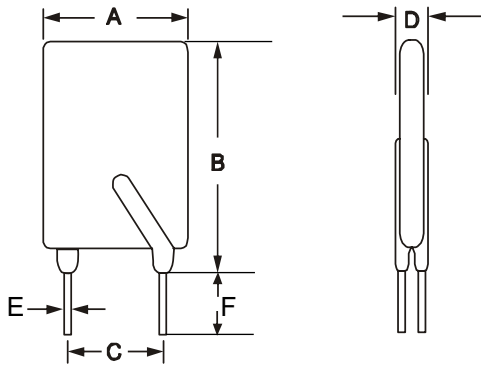
R-LINE DEVICES - D120 SERIES

Features

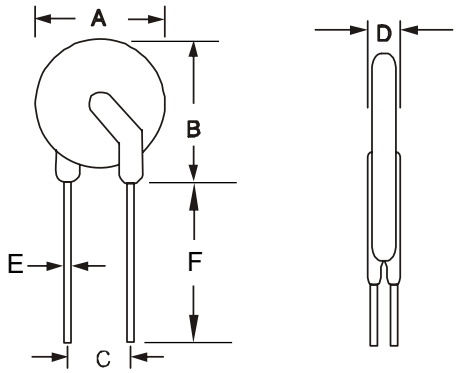
- ✧ Radial leaded devices.
- ✧ Available in lead-free version.



Package Dimensions



SZ



DZ

Part Number	A	B	C	D	E	F
	Max.	Max.	±0.6	Max.	Typ.	Min.
D120-100	8.3	10.7	5.1	3.8	0.5	7.6
D120-120	8.3	10.7	5.1	3.8	0.5	7.6
D120-160	8.5	12.5	5.1	3.8	0.5	7.6
D120-200	9.6	17.4	5.1	3.8	0.6	7.6
D120-250	9.6	17.4	5.1	3.8	0.6	7.6
D120-300	9.6	17.5	5.1	3.8	0.6	7.6
D120-400	11.4	19.5	5.1	3.8	0.6	7.6
D120-500	11.5	21.7	5.1	3.8	0.6	7.6
D120-650	14.0	21.7	5.1	3.8	0.8	7.6
D120-750	14.0	21.7	5.1	3.8	0.8	7.6
D120-900	14.0	21.7	5.1	3.8	0.8	7.6
D120-1100	14.0	16.2	5.1	3.8	0.8	7.6
D120-1350	18.0	25.0	5.1	3.8	0.8	7.6

R-LINE DEVICES - D120 SERIES

Electriacl Characteristics

Part Number	I_H	V_{MAX}	I_{MAX}	R_{MAX}	R_{MIN}
	(A)	(V)	(A)	(Ω)	(Ω)
D120-100	0.10	130	20	18	9
D120-120	0.12	130	20	12	6
D120-160	0.16	130	20	7.5	3.5
D120-200	0.20	130	20	5.0	2.5
D120-250	0.25	130	20	3.8	1.9
D120-300	0.30	130	20	2.6	1.3
D120-400	0.40	130	20	1.8	0.9
D120-500	0.50	130	20	1.6	0.8
D120-650	0.65	130	20	1.0	0.5
D120-750	0.75	130	20	0.8	0.4
D120-900	0.90	130	20	0.6	0.3
D120-1100	1.10	130	20	0.5	0.3
D120-1350	1.35	130	20	0.4	0.2

- I_H=Hold current: maximum current at which the device will not trip at 25℃ still air.
- V_{MAX}=Maximum voltage device can withstand without damage at rated current.
- I_{MAX}=Maximum fault current device can withstand without damage at rated voltage.
- R_{MAX}=Maximum device resistance at 25℃ prior to tripping.
- R_{MIN}=Minimum device resistance at 25℃ prior to tripping.

Thermal Derating Chart-I_H(A)

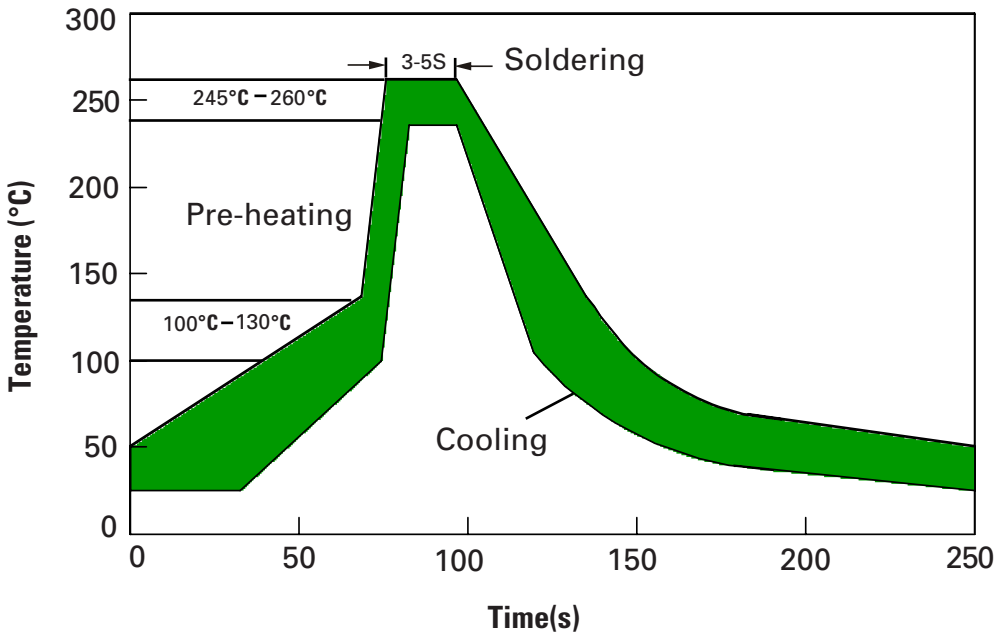
Part Number	Maximum Ambient Operating Temperatures (℃)								
	-20	0	25	30	40	50	60	70	85
D120-100	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.04
D120-120	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.06	0.05
D120-160	0.22	0.19	0.16	0.15	0.13	0.12	0.10	0.09	0.06
D120-200	0.27	0.24	0.20	0.18	0.16	0.14	0.13	0.11	0.08
D120-250	0.34	0.30	0.25	0.23	0.21	0.18	0.16	0.14	0.10
D120-300	0.41	0.36	0.30	0.27	0.25	0.22	0.19	0.16	0.12
D120-400	0.55	0.48	0.40	0.36	0.33	0.29	0.25	0.22	0.16
D120-500	0.69	0.60	0.50	0.45	0.41	0.36	0.32	0.27	0.21
D120-650	0.89	0.77	0.65	0.59	0.53	0.47	0.41	0.35	0.27
D120-750	1.03	0.89	0.75	0.68	0.62	0.54	0.47	0.41	0.31
D120-900	1.23	1.07	0.90	0.81	0.74	0.65	0.57	0.49	0.37
D120-1100	1.51	1.31	1.10	0.99	0.90	0.79	0.69	0.59	0.45
D120-1350	1.85	1.61	1.35	1.22	1.11	0.97	0.85	0.73	0.55

Storage Recommendations

1. Storage Temperature : -10°C ~+40°C
2. Relative Humidity : ≦80%RH
3. Keep away from corrosive atmosphere and sunlight.
4. Period of Storage: 1 year.

R-LINE DEVICES - D120 SERIES

Wave Soldering Recommendation Parameters



Items	Conditions
Pre-Heating Zone	Refer to the condition recommended by the flux manufacturer. Maximum ramping rate should not exceed 4℃/sec.
Soldering Zone	Maximum solder temperature should not exceed 260℃
Cooling Zone	Forced cooling

Manual Soldering Recommendation Parameters

Items	Conditions
Soldering condition	The most highest power of the manual soldering electric iron should be 30W or lower than that, soldering temperature should not be higher than 280℃.
Soldering time	The soldering time should be within 3 seconds, or it may lead to the envelope layer cracking, resistance getting bigger.
Soldering position	The soldering position should be controlled distance sea1de feet 4mm above.
Other	The iron soldering head can't touch the body of the product except the lead wire. In the conditions of meeting soldering effect of the product, the soldering lower temperature, nearest distance from the soldering position to chip and less soldering time will make the soldering better.

Notes: 1. Before using the device must be stored in the original bags, if the storage conditions do not guarantee, the device may not be able to meet the given value.
2. The devices can't used for reflow soldering.