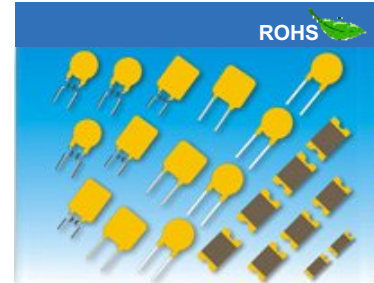




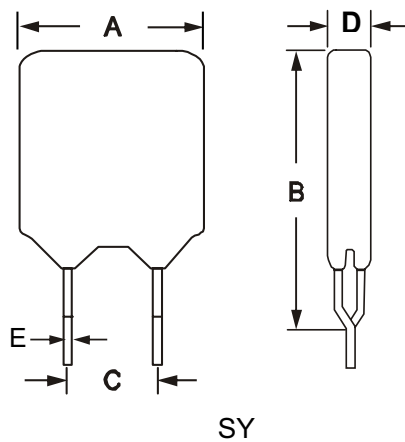
R-LINE DEVICES – D600 SERIES

Features

- ✧ Radial leaded devices.
- ✧ Very high voltage surge capabilities.
- ✧ Available in lead-free version.



Package Dimensions



Part Number	A	B	C	D	E
	Max.	Max.	±0.6	Max.	Typ.
D600-110	15.0	15.0	5.1	6.5	0.6
D600-150	15.0	15.0	5.1	6.5	0.6
D600-160	15.0	15.0	5.1	6.5	0.6

Electrical Characteristics

Part Number	I_H	V_{MAX}	I_{MAX}	R_{MAX}	R_{MIN}	$Pd_{typ.}$
	(mA)	(V)	(A)	(Ω)	(Ω)	(W)
D600-110	110	500	3	18	6	1.0
D600-150	150	500	3	15	5	1.0
D600-160	160	500	3	12	4	1.0

- I_H =Hold current: maximum current at which the device will not trip at 25°C still air.
- V_{MAX} =Maximum interrupt 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°C prior to tripping.
- R_{MIN} =Minimum device resistance at 25°C prior to tripping.
- Pd_{typ} =Typical power dissipation: typical amount of power dissipated by the device when at room temperature.



R-LINE DEVICES – D600 SERIES

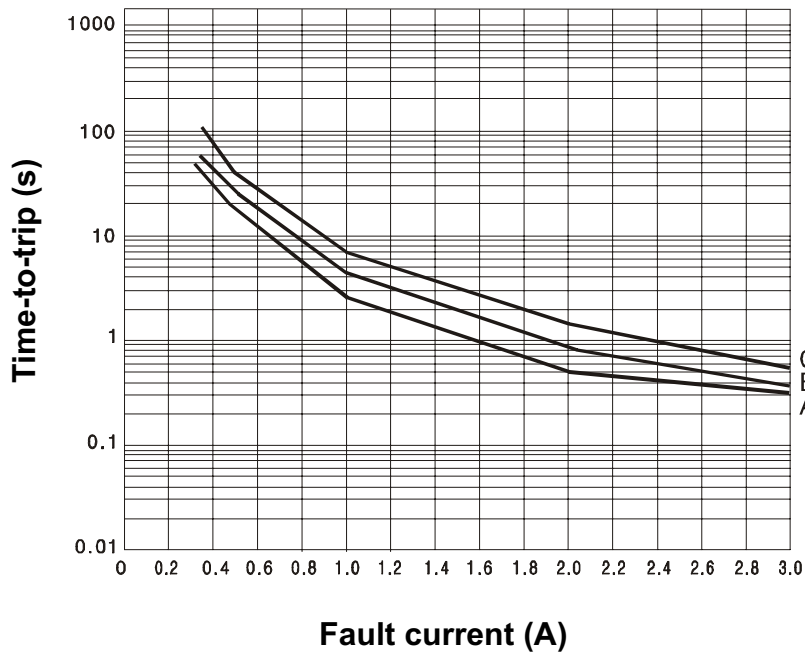
Thermal Derating Chart-I_H(A)

Part Number	Maximum Ambient Operating Temperatures (°C)								
	-20	0	25	30	40	50	60	70	85
D600-110	152	131	110	100	91	80	70	61	46
D600-150	207	179	150	137	125	110	96	83	63
D600-160	221	190	160	146	133	117	102	88	67

Test Procedures And Requirement

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	$T \leq \max. \text{ Time to trip}(T_{trip})$
Hold Current	30 min, at I_H	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 24hours	No arcing or burning

Average Time Current Curves



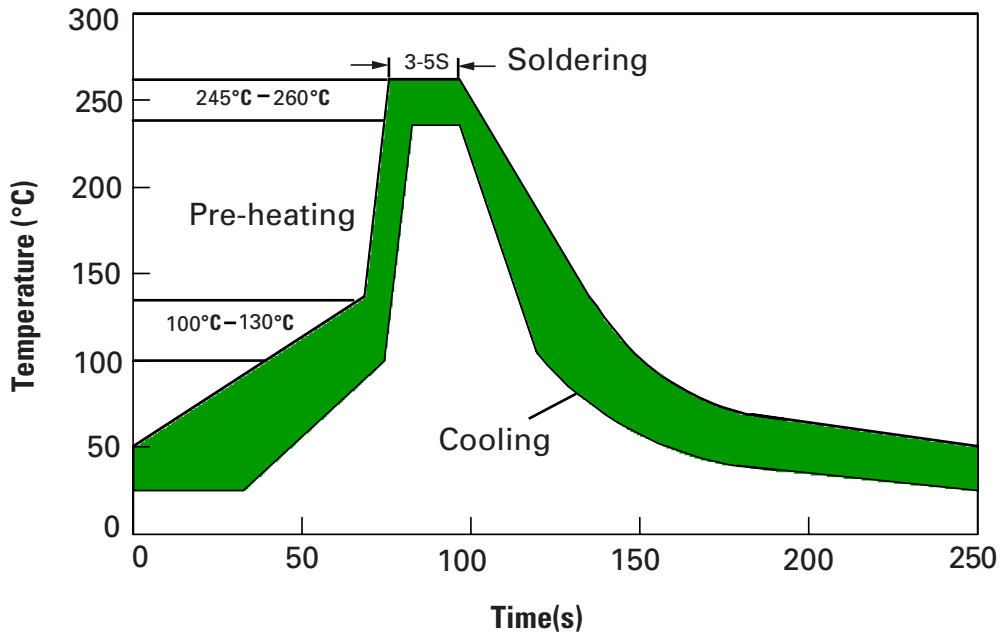
Storage Recommendations

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



R-LINE DEVICES – D600 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°C/sec.
Soldering Zone	Maximum solder temperature should not exceed 260°C
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°C.
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.