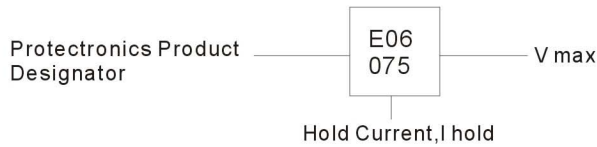


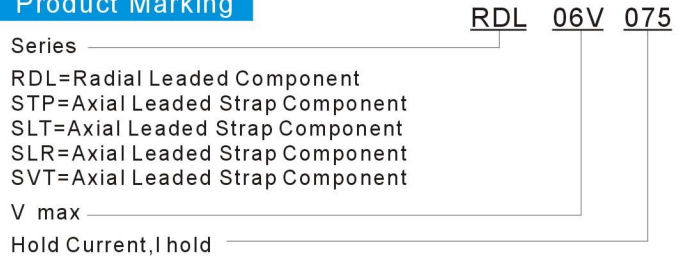
RDL06 Series-PPTC Resettable Fuses



Typical Part Marking



Product Marking



Environmental Characteristic

Operating/Storage Temperature	-40°C to +85°C
Maximum Device Surface Temperature	
In Tripped state	125°C
Passive Aging	+85°C, 1000hrs ±5% typical resistance change
Humidity Aging	+85°C, 85%RH, 1000hrs ±5% typical resistance change
Thermal Shock	MIL-STD-883c, Method 107G ±5% typical resistance change +125°C to -10°C, 10 times
vibration	MIL-STD-883C, Method 2007, 1 No change Condition A.

Test procedures and Requirements

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech	Verify dimensions and materials	Per MF physical description
Resistance	In still air @25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	At specified current, V_{max} , 25°C	$T \leq \text{max. time to trip (seconds)}$
Hold Current	30 min, at I_{hold}	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning

Electrical Characteristics

Model	V max. (Volts)	I max. (Amps)	I hold		Initial Resistance		1 Hour Post-Trip Resistance R1	Max. Time To Trip		Tripped Power Dissipation P(D)
			Amperes at 25°C		Ohms at 25°C		Ohms at 25°C	Amperes at 25°C	Seconds at 25°C	Watts at 25°C
			Hold	Trip	Min.	Max.	Max.			
RDL06V075	6	40	0.75	1.30	0.140	0.230	0.42	3.90	1.50	0.3
RDL06V090	6	40	0.90	1.80	0.100	0.180	0.30	5.40	1.70	0.6
RDL06V110	6	40	1.10	2.20	0.080	0.140	0.24	6.60	1.90	0.7
RDL06V120	6	40	1.20	2.40	0.080	0.140	0.18	7.20	3.50	0.6
RDL06V135	6	40	1.35	2.70	0.060	0.115	0.15	8.10	4.00	0.8
RDL06V160	6	40	1.60	3.20	0.050	0.110	0.15	9.60	5.00	0.9
RDL06V185	6	40	1.85	3.70	0.050	0.085	0.15	11.1	8.00	1.0
RDL06V250	6	40	2.50	5.00	0.030	0.060	0.09	15.0	8.00	1.2

Note:

- Vmax: Maximum voltage device can withstand without damage at rated voltage.
- I max: Maximum fault current device can withstand without damage at rated voltage.
- I hold: Hold current: maximum current device will sustain for 30 mins without tripping in 25°C still air.
- I trip: Trip current: minimum current at which the device will trip in 25°C still air.
- Rmin: Minimum resistance of device in initial (un-soldered) state.
- R1 max: Minimum resistance of device at 25°C measured one hour after tripping.
- P(d): Power dissipated from device when in the tripped state at 25°C still air.

Caution:

Operation beyond the specified rating may result in damage and possible arcing and flame.

Model	A Max	B Max	C		D Min	E Max	Physical characteristics		
			Nom.	Tol. ±			Style	Lead	Material
RDL06V075	6.9	11.4	5.1	0.7	7.6	3.1	2	0.51 dia	Sn/Cu
RDL06V090	7.4	12.2	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu
RDL06V110	7.4	14.2	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu
RDL06V120	6.9	11.7	5.1	0.7	7.6	3.1	2	0.51 dia	Sn/Cu
RDL06V135	8.9	13.5	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu
RDL06V160	8.9	15.2	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu
RDL06V185	10.2	15.7	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu
RDL06V250	11.4	18.3	5.1	0.7	7.6	3.1	1	0.51 dia	Sn/Cu

