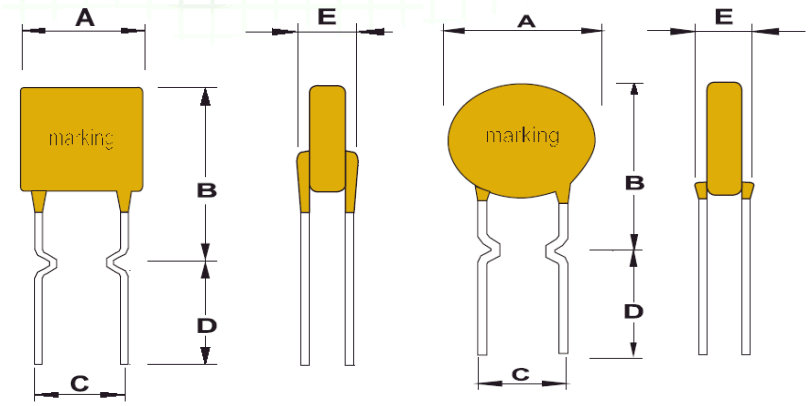
PPTC RESETTABLE FUSE Radial Leaded-RDL 06V Series

Construction and Dimension:



Style1 Style2

Unit:mm

Model	A	B	C		D	E	Physical characteristics		
	Max.	Max.	Nom.	Tol.±	Min.	Max.	Style	Lead	Material
RDL16V075	7.0	11.5	5.1	0.7	7.6	3.0	2	0.51 dia.	Sn/CuFe
RDL16V090	7.4	12.2	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe
RDL16V110	7.4	14.2	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe
RDL16V120	7.4	13.4	5.1	0.7	7.6	3.0	2	0.51 dia.	Sn/CuFe
RDL16V135	7.4	14.2	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe
RDL16V155	7.9	13.7	5.1	0.7	7.6	3.0	2	0.51 dia.	Sn/CuFe
RDL16V160	7.4	14.2	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe
RDL16V185	7.4	14.2	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe
RDL16V250	8.9	13.5	5.1	0.7	7.6	3.0	1	0.51 dia.	Sn/CuFe

Electrical Characteristics at 23℃:

Model	V Max. (Volts)	I Max. (Amps)	I hold (Amps)	I trip (Amps)	R min (Ω)	R min (Ω)	R1 max (Ω)	P(d) (Watts)
RDL16V075	6	40	0.75	1.50	0.09	0.20	0.40	1.20
RDL16V090	6	40	0.90	1.80	0.07	0.13	0.300	1.40
RDL16V110	6	40	1.10	2.20	0.05	0.12	0.200	1.60
RDL16V120	6	40	1.20	2.40	0.04	0.11	0.17	1.60
RDL16V135	6	40	1.35	2.70	0.04	0.09	0.15	1.60
RDL16V155	6	40	1.55	3.10	0.03	0.08	0.14	1.80
RDL16V160	6	40	1.60	3.20	0.03	0.08	0.14	1.80
RDL16V185	6	40	1.85	3.70	0.025	0.07	0.13	2.00
RDL16V250	6	40	2.50	5.00	0.02	0.05	0.10	2.00

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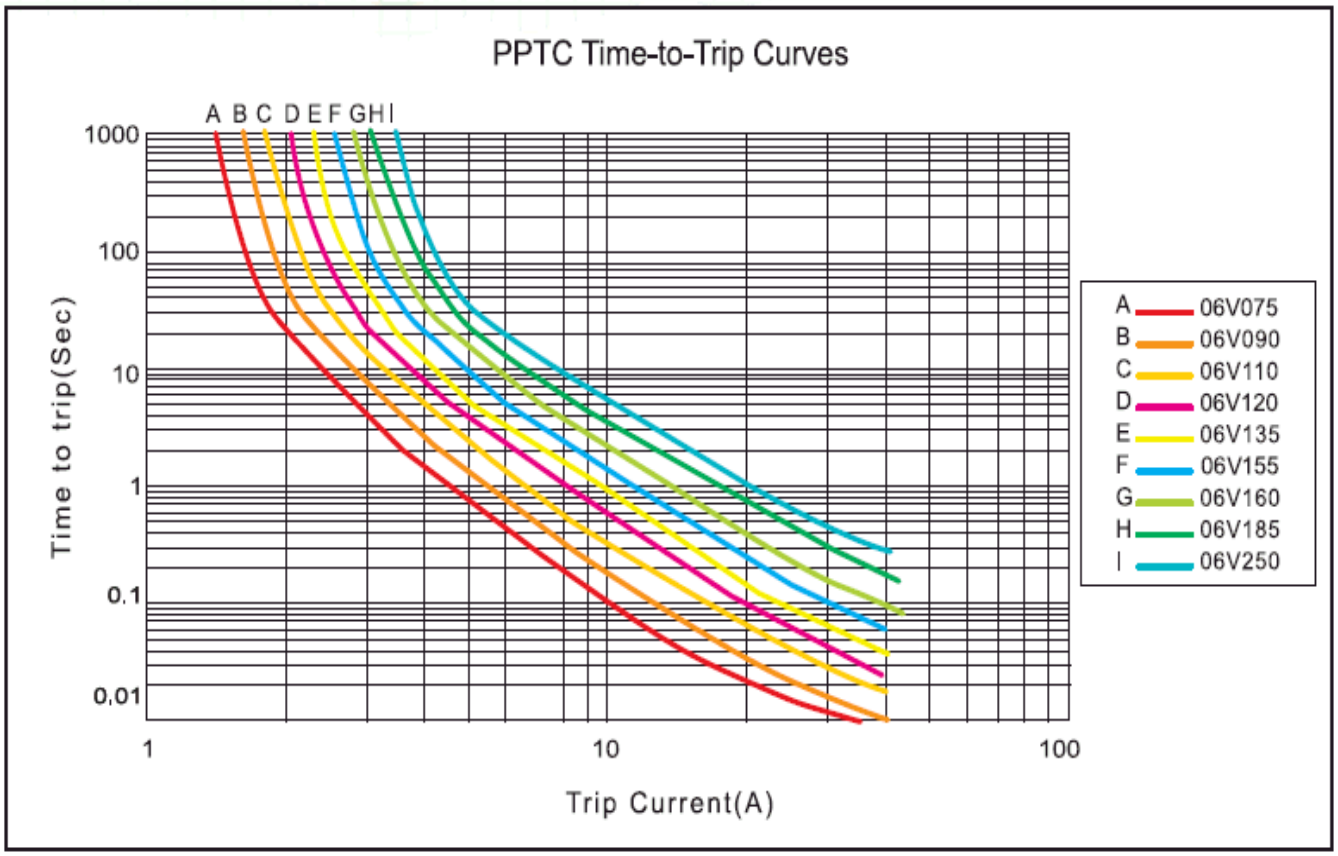
Construction and Dimension:

Typical Time to Trip Curves at 23^{0}C:



Thermal Derating Chart

Unit:Amps

TEMP(C^0)	-40	-20	0	23	40	50	60	70	85
RDL16V075	1.10	0.98	0.87	0.75	0.63	0.55	0.50	0.45	0.38
RDL16V090	1.40	1.25	1.15	0.90	0.75	0.65	0.57	0.50	0.38
RDL16V110	1.60	1.45	1.30	1.10	0.95	0.85	0.75	0.70	0.55
RDL16V120	1.70	1.55	1.38	1.20	1.00	0.87	0.78	0.72	0.63
RDL16V135	1.90	1.78	1.55	1.35	1.10	0.99	0.91	0.79	0.67
RDL16V155	2.13	1.91	1.75	1.55	1.28	1.16	1.05	0.97	0.85
RDL16V160	2.22	2.02	1.83	1.60	1.27	1.2	1.02	0.92	0.81
RDL16V185	2.55	2.34	2.10	1.85	1.52	1.40	1.15	1.05	0.93
RDL16V250	3.45	3.05	2.75	2.50	1.95	1.85	1.65	1.45	12.5

PPTC RESETTABLE FUSE

Definition of Electrical Characteristics

- ☐ V_{max} : Maximum voltage the device can withand without damage at rated current.
- ☐ I_{max} : Maximum fault current the device can withand without damage at rated voltage.
- ☐ I_{hold} : Hold current; Maximum current at which the device will not trip in 23℃ still air.
- ☐ I_{trip} : Trip current; Minimum current at which the device will trip in 23℃ still air.
- ☐ R_{min} : Minimum device resistance in initial state at 23℃.
- ☐ R_{max} : Maximum device resistance in initial state at 23℃.
- ☐ $R1_{max}$: Maximum device resistance at 23℃ measured 1 hours after tripping.
- ☐ $P_{(d)}$: Maximum power dissipated from device when in the tripped state in 23℃still air.

Test and Environmental Characteristics

Items	Specification/Condition	Accept Criteria
Initial resistance	In still air at 23℃	$R_{min} \leqq R \leqq R_{max}$
Time to trip	At specified current, V_{max} at 23℃	Refer to time-to-trip chart
Hold current	30 min., at I_{hold}	No trip
Trip endurance	V_{max}, I_{max}, 100 cycles	No arcing or burning
Trip aging	V_{max}, 48 hours	No arcing or burning
Max.device surface temp.	In tripped state	125℃max.
Passive aging	85℃, 1000 hours	± 10% typical resistance change
Humidity aging	85℃, 85% RH, 1000 hours	± 10% typical resistance change
Thermal shock	85℃/-40℃, 10 times	+5 ~ -20% typical resistance change

Product Packing Specifications

Type	Series	Model	Packaging type	Quantity
Radial-leaded type	RDL06V RDL30V	090～110	Reel packaging Ammo packaging	3000 / pack
		135～185		2000 / pack
		250～400		1500 / pack
	RDL60V	010～050		3000 / pack
		065～075		2000 / pack
		090～185		1500 / pack
SMD type	2920SMD	All models	Reel Packaging	2000 / pack
	1812SMD			1500 / pack
	1206SMD			3000 / pack
	0805SMD			3000 / pack

* Basic Packaging unit for radial-leaded type and strap type is 500 pcs/bag.

Radial-Leaded Type Part Number:
(1) RDL = Readial Leaded Type.
(2) 06V = Product Series Defined by max voltage (V max) 06V,16V,30V,60V.
(3) 010 = Hold Current I_{hold}