

Features



- Radial leaded devices
- Faster tripping, typical application in micro-motors for automobiles
- Protecting against overcurrent and overtemperature faults
- Available in lead-free version
- Agency Recognition: UL、CSA、TUV

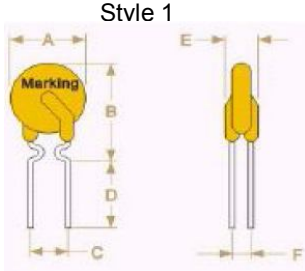
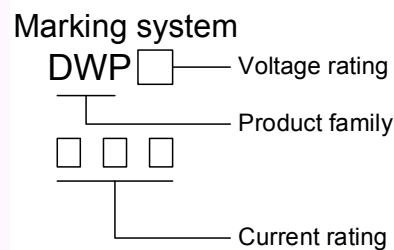
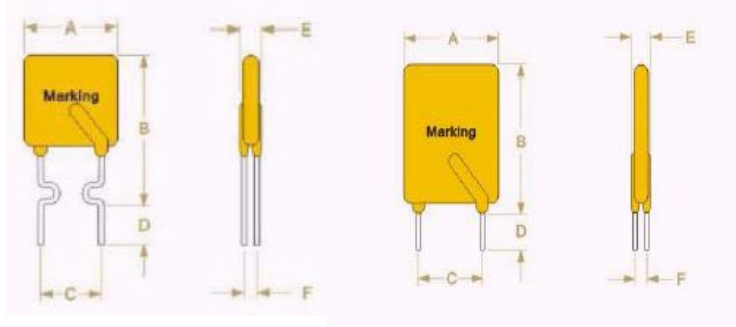


DWP16 series

R-line devices

Product Dimensions

Part number							Lead	
	Max.	Max.	Typ.	Min.	Max.	Typ.	Style	Size(φ)
DWP16-075F	6.4	11.4	5.1	7.6	3.0	0.9	3	0.5
DWP16-090F	6.0	14.0	5.1	7.6	3.0	0.9	1	0.5
DWP16-110F	8.2	14.2	5.1	7.6	3.0	0.9	1	0.5
DWP16-120F	7.7	12.6	5.1	7.6	3.0	0.9	3	0.5
DWP16-135F	9.0	14.5	5.1	7.6	3.0	0.9	1	0.5
DWP16-160F	9.0	17.9	5.1	7.6	3.0	0.9	1	0.5
DWP16-185F	11.0	16.7	5.1	7.6	3.0	0.9	1	0.5
DWP16-200F	13.0	18.0	5.1	7.6	3.0	1.1	3	0.5
DWP16-250F	11.5	19.0	5.1	7.6	3.0	0.9	1	0.5
DWP16-300F	8.5	15.5	5.1	7.6	3.0	1.2	2	0.8
DWP16-400F	9.2	16.5	5.1	7.6	3.0	1.2	2	0.8
DWP16-500F	11.1	15.5	5.1	7.6	3.0	1.2	2	0.8
DWP16-600F	11.4	19.0	5.1	7.6	3.0	1.2	2	0.8
DWP16-700F	12.5	22.5	5.1	7.6	3.0	1.2	2	0.8
DWP16-800F	12.5	22.5	5.1	7.6	3.0	1.2	2	0.8
DWP16-900F	15.5	23.0	5.1	7.6	3.0	1.2	2	0.8
DWP16-1000F	17.2	27.0	5.1	7.6	3.0	1.2	2	0.8
DWP16-1100F	17.2	27.0	5.1	7.6	3.0	1.2	2	0.8
DWP16-1200F	18.2	29.0	10.2	7.6	3.4	1.4	2	0.8
DWP16-1400F	24.0	28.7	10.2	7.6	3.4	1.4	2	0.8



Style 3

* Lead materials: Tin-plate metal wire.

* Lead-free devices are available,
the right logo is lead-free mark.



Electrical Characteristics

Part number	I_H	I_T	Max. Time-to-trip		T_{trip}	V_{max}	I_{max}	Pd_{typ}	R_{min}	R_{1max}
	(A)	(A)	Current(A)	Time(s)	(S)	(V)	(A)	(W)	(Ω)	(Ω)
DWP16-075F	0.75	1.30	3.75	0.4	0.4	16	40	0.30	0.14	0.23
DWP16-090F	0.90	1.80	4.50	1.2	1.2	16	40	0.60	0.10	0.18
DWP16-110F	1.10	2.20	5.50	2.3	2.3	16	40	0.70	0.08	0.14
DWP16-120F	1.20	2.00	6.00	3.5	3.5	16	40	0.60	0.08	0.14
DWP16-135F	1.35	2.70	6.75	4.5	4.5	16	40	0.81	0.06	0.12
DWP16-160F	1.60	3.20	8.00	9.0	9.0	16	40	0.90	0.05	0.11
DWP16-185F	1.85	3.70	9.25	10.0	10.0	16	40	1.00	0.05	0.09
DWP16-200F	2.0	4.0	10.0	10.0	10.0	16	40	1.00	0.040	0.080
DWP16-250F	2.50	5.00	12.50	10.0	10.0	16	40	1.21	0.03	0.06
DWP16-300F	3.0	5.1	15.0	2.0	2.0	16	100	2.3	0.034	0.105
DWP16-400F	4.0	6.8	20.0	3.5	3.5	16	100	2.4	0.020	0.063
DWP16-500F	5.0	8.5	25.0	3.6	3.6	16	100	2.6	0.014	0.044
DWP16-600F	6.0	10.2	30.0	5.8	5.8	16	100	2.8	0.009	0.030
DWP16-700F	7.0	11.9	35.0	8.0	8.0	16	100	3.0	0.006	0.021
DWP16-800F	8.0	13.6	40.0	9.0	9.0	16	100	3.0	0.005	0.018
DWP16-900F	9.0	15.3	45.0	12.0	12.0	16	100	3.3	0.004	0.015
DWP16-1000F	10.0	17.0	50.0	12.5	12.5	16	100	3.3	0.003	0.012
DWP16-1100F	11.0	18.7	55.0	13.5	13.5	16	100	3.7	0.003	0.010
DWP16-1200F	12.0	20.4	60.0	16.0	16.0	16	100	4.2	0.002	0.009
DWP16-1400F	14.0	23.8	70.0	20.0	20.0	16	100	4.6	0.0014	0.0080

I_H =Hold current: maximum current at which the device will not trip at 25°C still air.

I_T =Trip current: minimum current at which the device will always trip at 25°C still air.

T_{trip} =Maximum time to trip at 5 times hold current (i.e. 5* I_H).

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.

Pd_{typ} =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{min} =Minimum device resistance at 25°C prior to tripping.

R_{1max} =Maximum resistance of device when measured one hour post trip at 25°C.

Thermal Derating Chart- I_H (A)

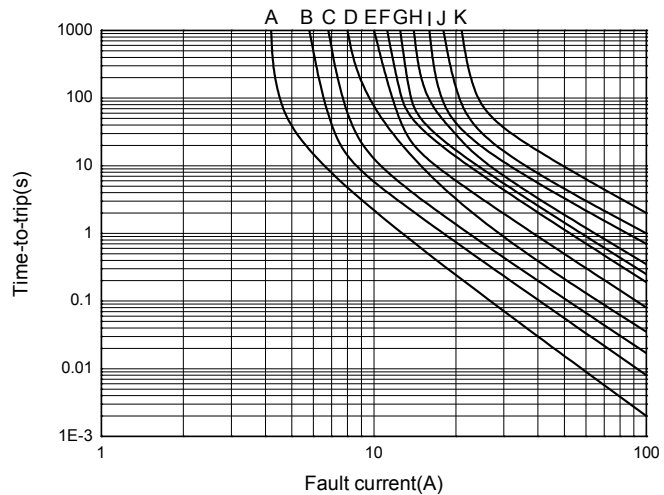
Part number	Maximum ambient operating temperatures(°C)									
	-40	-20	0	25	40	50	60	70	85	
DWP16-075F	1.05	0.95	0.85	0.75	0.65	0.60	0.55	0.50	0.43	
DWP16-090F	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50	
DWP16-110F	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63	
DWP16-120F	1.69	1.52	1.36	1.20	1.04	0.96	0.88	0.80	0.68	
DWP16-135F	2.15	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88	
DWP16-160F	2.49	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88	
DWP16-185F	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.21	1.05	
DWP16-200F	3.45	3.04	2.55	2.00	1.68	1.46	1.33	1.21	1.03	
DWP16-250F	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39	
DWP16-300F	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4	
DWP16-400F	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9	
DWP16-500F	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4	
DWP16-600F	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8	
DWP16-700F	10.3	9.3	8.4	7.0	6.2	5.6	5.0	4.4	3.3	
DWP16-800F	11.7	10.7	9.6	8.0	6.9	6.4	5.6	5.1	3.7	
DWP16-900F	13.2	11.9	10.7	9.0	7.9	7.2	6.4	5.6	4.2	
DWP16-1000F	14.7	13.3	12.0	10.0	8.7	8.0	7.0	6.3	4.7	
DWP16-1100F	16.1	14.6	13.1	11.0	9.7	8.8	7.8	6.9	5.2	
DWP16-1200F	17.6	16.0	14.4	12.0	10.4	9.6	8.4	7.6	5.6	
DWP16-1400F	20.5	18.7	16.8	14.0	12.1	11.2	9.8	8.9	6.5	

Test Procedures And Requirements

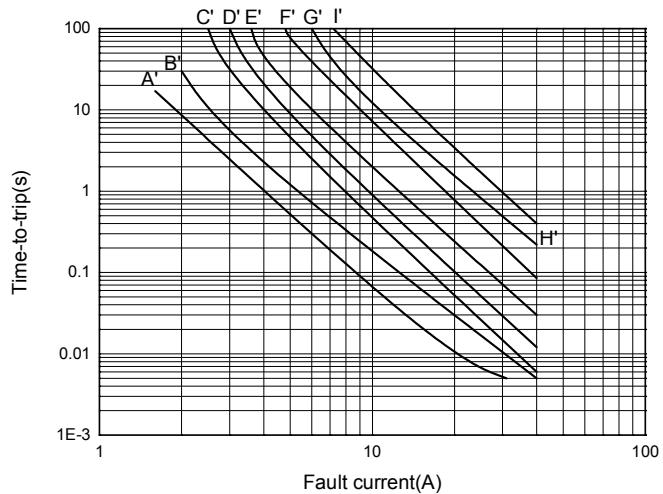
Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	$T \leq$ maximum Time to Trip
Hold Current	30min, at I_H	No trip
Trip Cycle Life	V_{max} , I_{max} , 100cycles	No arcing or burning
Trip Endurance	V_{max}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

Typical Time-to-Trip Charts at 25°C

A=DWP16-300F
 B=DWP16-400F
 C=DWP16-500F
 D=DWP16-600F
 E=DWP16-700F
 F=DWP16-800F
 G=DWP16-900F
 H=DWP16-1000F
 I=DWP16-1100F
 J=DWP16-1200F
 K=DWP16-1400F



A'=DWP16-075F
 B'=DWP16-090F
 C'=DWP16-110F
 D'=DWP16-120F
 E'=DWP16-135F
 F'=DWP16-160F
 G'=DWP16-185F
 H'=DWP16-200F
 I'=DWP16-250F



Package Information

Bulk:
 DWP16-075F~DWP16-1200F.....500pcs per bag
 DWP16-1400F.....250pcs per bag