SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

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APPROVAL SHEET

MODEL NO.： R16-135

CUSTOMER：

CUSTOMER'S APPROVAL：

AUTHORIZED SIGNATURE/STAMP：

DATE

MANUFACTURER:

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Submitted by:	Chung Cheng
Approved by:	YC Lin
DATE:	9-Apr-13

SEA & LAND ELECTRONIC CORP.

R16-135

Features

- ■Radial Leaded Devices
- ■Cured, flame, retardant epoxy polymer insulating material meets UL 94V-0 requirements
- ■Bulk packaging, or tape and reel available on most models

Applications

Almost anywhere there is a low voltage power supply, up to 16V and a load to be protected, including:

- ■Personal computer
- ■Medical electronics
- ■Personal care product

Alpha-Top (Sea & Land Alliance)

Model	V_{max}	I_{max}	I_{hold}	I_{trip}	P_d	Maximum Time To Trip		Resistance			Agency Approval	
					Typ.	Current	Time	Ri min	Ri max	R1 max	UL	TUV
	(Vdc)	(A)	(A)	(A)	(W)	(A)	(Sec)	(Ω)	(Ω)	(Ω)		
R16-135	16	100	1.35	2.70	0.80	8.00	4.5	0.040	0.0740	0.120		

Ihold = Hold Current : maximum current device will sustain for 4 hours without tripping in 25°C still air.

Itrip = Trip Current : minimum current at which the device will trip in 25°C still air.

V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

Pd = Power dissipated from device when in the tripped state at 25°C still air.

Ri min/max = Minimum/Maximum resistance of device in initial (un-soldered) state.

R1 max = Maximum resistance of device at 25°C measured one hour after tripping.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H.,1000 hrs	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±10% typical
Resistance to solvent	MIL-STD-202,Method 215	No change
Vibration	MIL-STD-202,Method 201	No change
Ambient operating /storage conditions : - 40 °C to +85 °C		
Maximum surface temperature of the device in the tripped state is 125 °C		

Agency Approvals : **UL pending**

Regulation/Standard: Pb RoHS **2002/95/EC**

HF **EN14582**

PHYSICAL SPECIFICATIONS :

Materials : Leads

Tin plated copper-clad steel, 24 AWG (0.51mm/0.020" Dia.)

Lead Solderability : MIL-STD-202, Method 208E

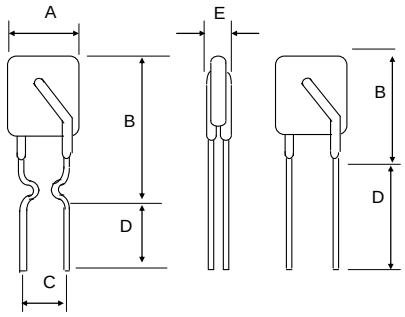
Device Labeling : Device is marked with Logo, amperage rating , voltage rating & date code.

WARNING:

· Use PPTC beyond the maximum ratings or improper use may result in device damage and possible electrical arcing and flame.
· PPTC are intended for protection against occasional over current or over temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
· Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
· Use PPTC with a large inductance in circuit will generate a circuit voltage (L di/dt) above the rated voltage of the PPTC.
· Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.

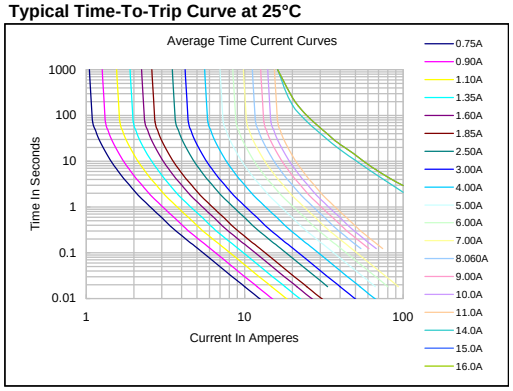
Physical Dimensions (Unit: mm)

Model	A Max.	B Max.	C Typ.	D Min.	E Max.	Lead Style
R16-135	8.90	13.50	5.10	7.6	3	Kink

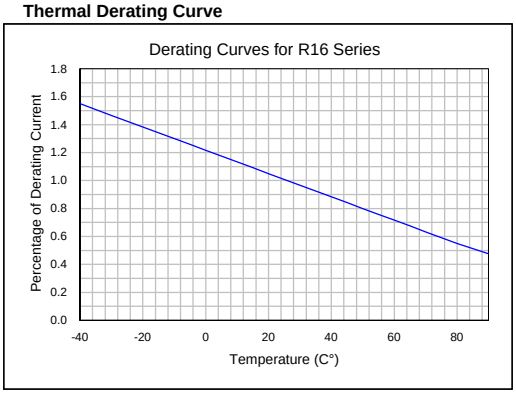


Note : Stand-offs only used for R16-090 ~ R16-250

Typical Time-To-Trip Curve at 25°C



Thermal Derating Curve



Packing :

Model	Reel QTY	Bag QTY
R16-135	3000	500

Tape & Reel packaging per EIA468-B standard.

Labeling Information