



SEA & LAND ELECTRONIC CORP.

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ALPHA-TOP TECHNOLOGY CORP.

WWW.ALPHA-TOP.CN

APPROVAL SHEET

MODEL NO.: R60-017

CUSTOMER:

CUSTOMER'S APPROVAL:

AUTHORIZED SIGNATURE/STAMP:

DATE

MANUFACTURER:

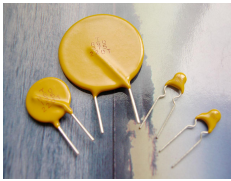
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Submitted by: Chen
Approved by: YC Lin
DATE: 16-Mar-22



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

R60-017

Alpha-Top (Sea & Land Alliance)

Electrical Properties

Model	V_{max}	I_{max}	I_{hold}	I_{trip}	P_d	Maximum Time To Trip		Rimin (Ω)	R1max (Ω)	Agency Approval	
	(Vdc)	(A)	(A)	(A)	Typ. (W)	Current (A)	Time (Sec)			UL	TUV-PS
R60-017	60	40	0.17	0.34	0.48	0.85	3.0	2.50	8.00	✓	✓

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.

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

Imax = 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
Passive aging	+85°C, 1000 hrs
Humidity aging	+85°C, 85% R.H., 1000 hrs
Thermal shock	+85°C to -40°C, 20 times
Resistance to solvent	MIL-STD-202, Method 215
Vibration	MIL-STD-202, Method 201
Ambient operating /storage conditions : - 40 °C to +85 °C	
Maximum surface temperature of the device in the tripped state is 125 °C	
In case of special use, please contact our engineer	

Agency Approvals :



E201504(Alpha-Top)/E319079(Sea&Land)



R 50274672

Regulation/Standard:



2015/863/EU



EN14582



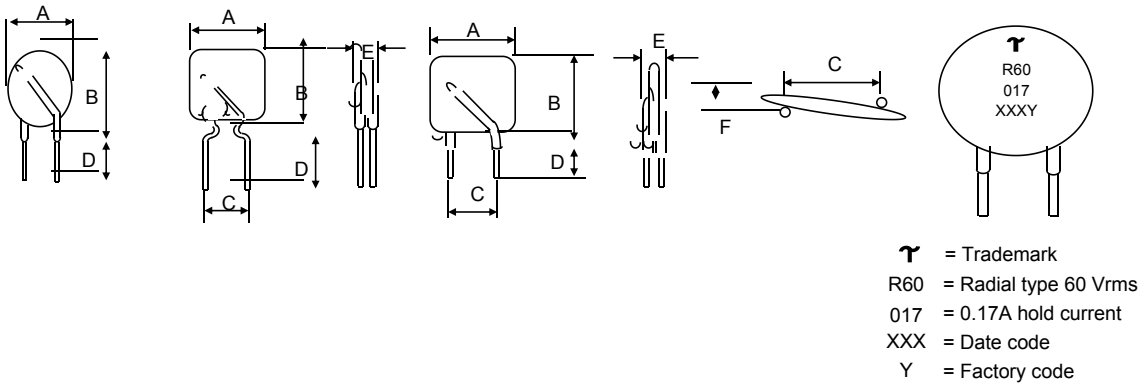
WARNING:

- 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/inch)

Model	A Max.	B Max.	C Typ.	D Min.	E Max.	F Max.	Lead Style
R60-017	7.4	12.7	5.1	7.6	3.1	1.7	Kink

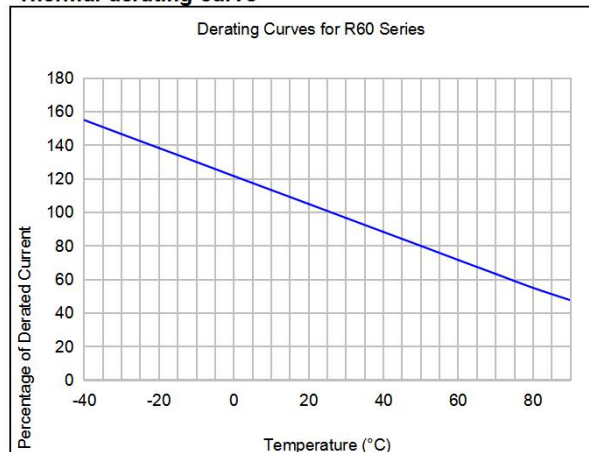
Dimensions



Physical Characteristics

Lead Material :
R60-017 : Tin-plated copper-clad steel, 0.205mm² (24AWG), Φ0.51mm(0.020 in).
Lead Solderability : MIL-STD-202, Method 208E

Thermal derating curve



Maximum ambient operating temperature (T_{max}) vs. hold current (I_{hold})

Maximum ambient operating temperature (T_{mao}) vs. hold current (I_{hold})									
Model	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
R60-017	0.26	0.23	0.20	0.17	0.14	0.12	0.11	0.09	0.07

Packing

R60	017	K or S	R or U	Model	Reel Q'ty	Bag Q'ty
Radial type 60 V	Hold Current 0.17A	K=Kink leads S=Straight leads	R= Tape & Reel U= Bulk packaged	R60-017	2500	500

Tape & Reel packaging per EIA468-B standard.

Labeling Information

