

### 1. Summary

- (a) **RoHS Compliant (Lead Free) product**
- (b) **Applications : Wide variety of electronic equipment**
- (c) **Product Features : Solid state, Radial leaded product ideal for up to 120VAC/VDC**
- (d) **Operation Current : 1.60A**
- (e) **Maximum Voltage : 120VAC/VDC**
- (f) **Temperature Range : -40°C to 85°C**

### 2. Agency Recognition

UL : File No. Pending  
 C-UL: File No. Pending  
 TÜV: File No. Pending

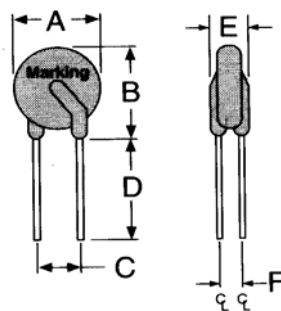
### 3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							RMIN	R1MAX
	IH, A	IT, A	at 5xIH	IMAX, A	VMAX, V	Pd, W	ohms	ohms
<b>MRA160-120F</b>	1.60	3.20	11.4	8.0	120	2.85	0.09	0.22

IH=Hold current-maximum current at which the device will not trip at 23°C still air.  
 IT=Trip current-minimum current at which the device will always trip at 23°C still air.  
 V MAX=Maximum voltage device can withstand without damage at its rated current.  
 I MAX= Maximum fault current device can withstand without damage at rated voltage (V MAX).  
 Pd=Typical power dissipated from device when in tripped state in 23°C still air environment.  
 RMIN=Minimum device resistance at 23°C.  
 R1MAX=Maximum device resistance at 23°C, 1 hour after tripping .

Physical specifications:  
 Lead material: Tin plated copper,20AWG.  
 Soldering characteristics:MIL-STD-202, Method 208E.  
 Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

### 4. Production Dimensions (millimeter)

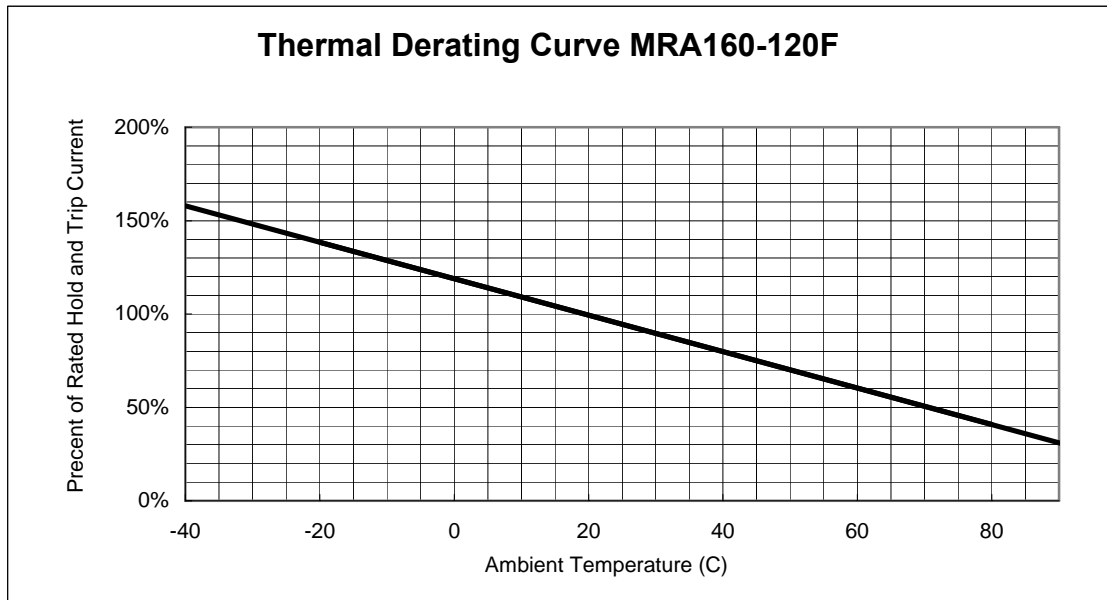


Lead Size : 20AWG  
 Φ 0.81 mm Diameter

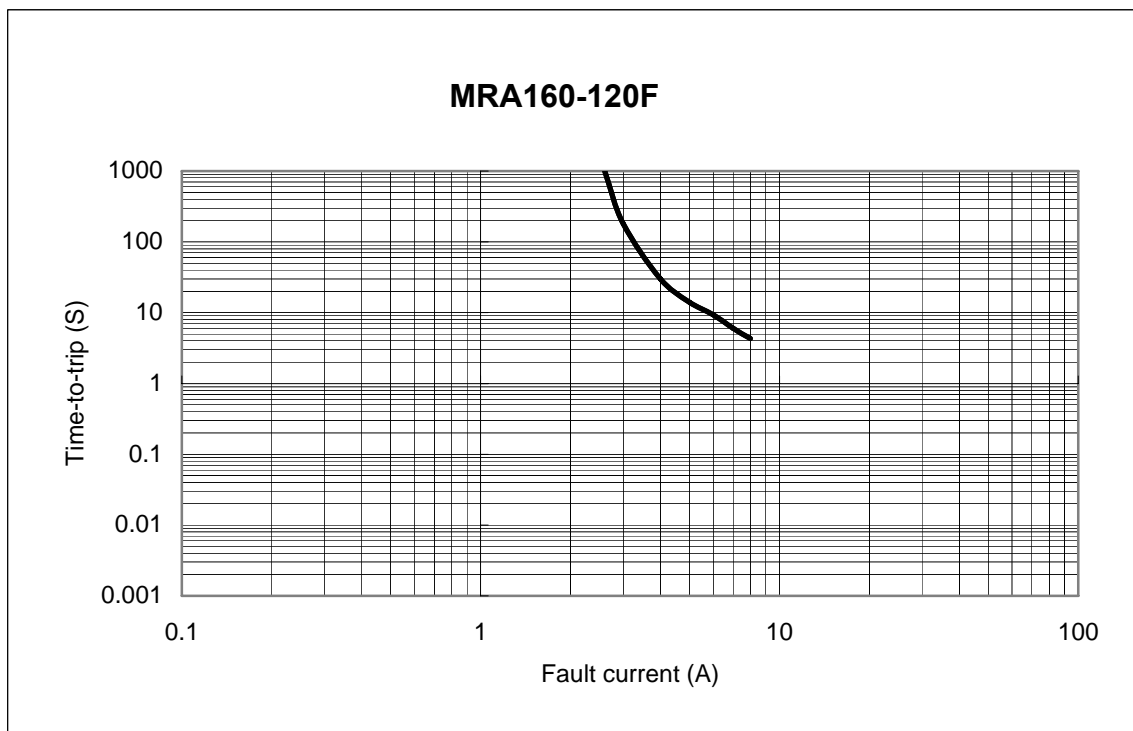
Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
<b>MRA160-120F</b>	17.5	22.5	5.1	7.6	5.0	3.0

NOTE : Specification subject to change without notice.

### 5. Thermal De rating Curve



### 6. Typical Time-To-Trip at 23°C





# SINLOON®

## PPTC Resettable Fuse

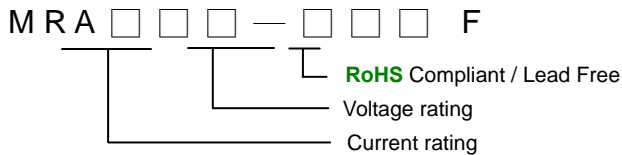
### MRA160-120F

### 7. Material Specification

- Lead material : Tin plated copper, 20 AWG.
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### 8. Part Numbering and Marking System

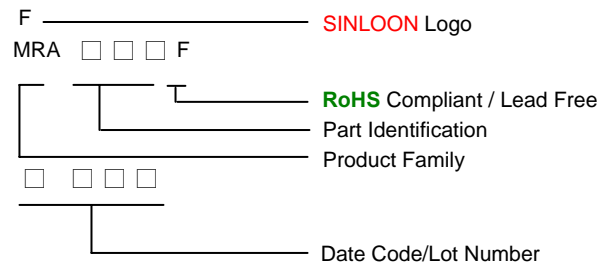
#### Part Numbering System



Example



#### Part Marking System



**Warning:** -Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.



- PPTC device are intended for occasional over current protection. Application for repeated over current condition and/or prolonged trip are not anticipated.
- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

**NOTE :** Specification subject to change without notice.