

FEATURES

I(hold): 5.00A

| RoHS compliant, Lead-Free

Fast time-to-trip

| Bulk packaging, or tape and reel available

Low resistance

Radial leaded device



APPLICATIONS

| PC motherboard - plug and play protection

Industrial controls

Automotive electronics

Medical products

Power ports

ENVIRONMENTAL SPECIFICATIONS

Test	Conditions	Resistance change		
Passive aging	+85°C,1000 hrs	±8% typica		
Humidity aging	+85°C,85%R.H.,168 hours	±8% typical		
Thermal shock	+125°C to -55°C,10times	±12% typical		
Resistance to solvent	MIL-STD-202,Method 215	No change		
Vibration	MIL-STD-202,Method 201	No change		
Ambient operating conditions : - 40°C to +85°C Maximum surface temperature of the device in the tripped state is 125 °C				



PERFORMANCE SPECIFICATION

Type Number	I _{hold}	l _{trip}	\mathbf{V}_{max}	l _{max}	V _{max} Interrupt	P_{dtyp}	Ma Time t		R_{min}	R_{max}	R1 _{max}
туре напівеі	Α	Α	V_{DC}	Α	V _{rms}	W	Current A	Tmax S	Ω	Ω	Ω
SK120-500	5.00	10.0	120	27.5	135	4.80	25.00	24.0	0.02	0.06	0.07

I_H: Holding Current: maximum current at which the device will not trip in 25°C still air.

 R_{min} : Minimum resistance of device prior to trip at 25°C.

R $_{\mbox{\tiny max}}\!\!:\!$ Maximum resistance of device prior to trip at 25°C.

THERMAL DERATING CHART-IH(A)

Part Number	Ambient Operation Temperature								
Part Number	-40 °C	-20 °C	0 °C	25 °C	40 °C	50 °C	60°C	70 °C	85 °C
SK120-500	7.67	7.00	6.00	5.00	4.33	3.67	3.33	2.67	2.00

ENVIRONMENTAL SPECIFICATIONS

Items	Test Conditions	Accept/Reject Criteria
Resistance	In still air@25°C	Rmin≤R≤Rmax
Time to Trip	Specified current, Vmax,25°C	T≤max.Time to trip(Ttrip)
Hold Current	60 min,at IH	No trip
Trip Cycle Life	Vmax,Imax,100 cycles	No arcing or burning
Trip Endurance	Vmax,24 hours	No arcing or burning

 $[\]rm I_{\rm T}\!:$ Tripping 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 $_{\rm max}$: Maximum fault current device can withstand without damage at rated voltage.

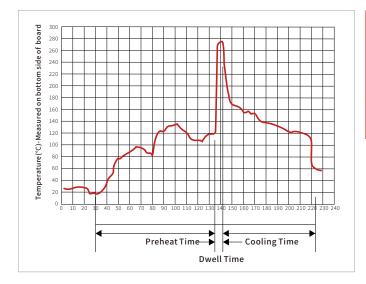
 T_{trip} : Maximum time to trip(s) at assigned current.

P_{d typ}: Rated working power.

R1 may: Maximum resistance of device is measured one hours post reflow at 25°C.

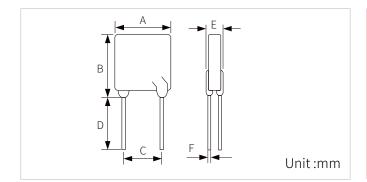


WAVE SOLDERING



	Wave Parameter	Lead-free assembly
	Temperature Min	100°C
Pre Heat	Temperature Max	150°C
	Time(min to max)	60 – 180 secs
Solder pot Temperature		280°C Max
Solder Dwell Time		2-5 seconds

PACKAGE MECHANICAL DATA



Dimensions	
Millimeters	
28.4(Max.)	
33.5(Max.)	
10.2(Typ.)	
7.6(Min.)	
4.1(Max.)	
Ф0.80	

ORDERING INFORMATION

Part Number	Base Quantity	Packing Option
SK120-500	200pcs	Bag



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