

Description

K121002 are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.



Features

- AEC-Q200 Automotive Grade Certified
- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead Free and Halogen free material

Specifications

Electrical Characteristics						
Rated Current	1.0ln	2.5ln	3.5ln			
250mA~5A	4 hour min.	5 sec max.	-			
6A~30A	4 nour min.	-	5 sec max.			

			Sp	pecification				
Part No.	Rated Rated Voltage Current DC (A)	Breaking Capacity ¹	Typical Cold. Resistance (mOhms) ²		Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ³ DC	Aplha Marking	
		(A)		Min	Max	Diop (iiiv)	(A Sec) DC	
K121002	72V 63V 32V 24V	2A	50A@72V 50A@63V 50A@32V 300A@24V	103	165	316	0.41	N

^{*} DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

Dimension

Drawing not to scale (Unit: mm)

Top view



Side view:1A~15A

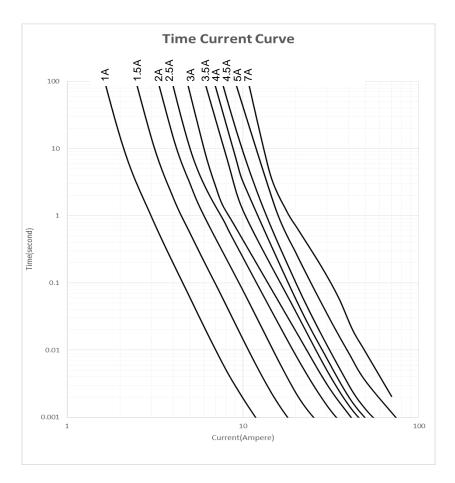


^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

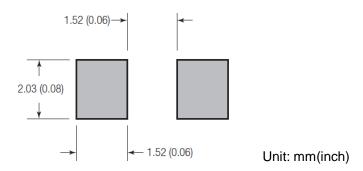
^{*} Typical Pre-arching I2t are measured at 10In Current

^{*}Part No. Description





Recommended land pattern



Soldering method

Wave solder

■ Reservoir temperature: 260°C

■ Time in reservoir: 10 seconds maximum

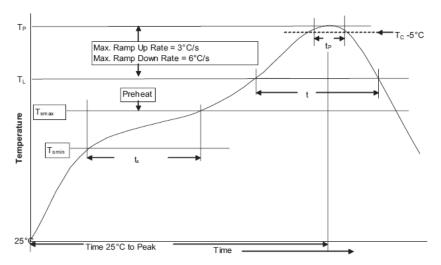
Infrared reflow

■ Temperature: 260°C

■ Time: 30 seconds maximum

Solder reflow profile



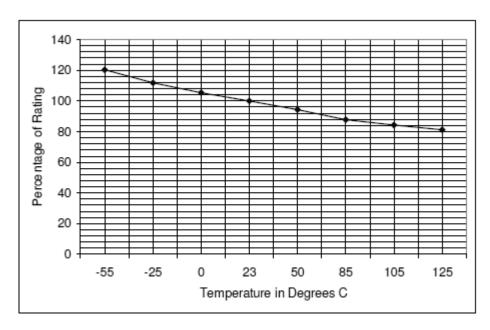


Profile Feature		Lead(Pb) free solder	
Preheat and soak	Temperature min.(T _{smin})	150°C	
	 Temperature max. (T_{smax}) 	200℃	
	 Time (T_{smin} to T_{smax}) (t_S) 	60 - 120 Seconds	
Average ramp up rate T _s	3°C / Second Max.		
Liquidous temperature (7	217°C		
Time at liquidous (t _L)	60 - 150 Seconds		
Peak package body temp	260°C		
Time (t _P) within 5°C of the	30 Seconds		
Average ramp-down rate	6°C / Second Max.		
Time (25°C to Peak Temp	8 Minutes Max.		

Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied





Environmental Characteristics

Storage Conditions+40 °C Max. 70% RH Max. Packed in original packaging.

Agency Approvals

■ Regulation/Standard: RoHS, Reach

Package information

 Model
 Q'ty/Reel

 3000 pcs

Note: Reel packaging per EIA-481-1 standard