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TM **EVERFUSE**

Polymeric PTC Fuse

Product: SHV2920P500/30-AA **Revision:** C Date: 25 October,2016 Page: 1 of 1

Device Specification(preliminary)



Polytronics Technology Corp REGISTERED TO OS9000, TL9000 ISO9001 (version 2000), and ISO 14001 CERTIFICATE NO.AB727 and A10971

Electrical Rating

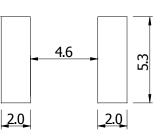
Voltage: 30V Current: 30A

Marking :

P(Polytronics / Polystar Logo)

Figure A	
Marking	





Physical Dimensions (mm)

	Marking a 4.6										
Physical Dimensions (mm)											
	A		В		С		D		E		
Part Number	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
SHV2920P500/30-AA	6.70	8.60	5.00	5.70	2.00	3.20	1.00	2.30	4.90	5.30	

Electrical Characteristics

Electrical Charac				XCO					
Part Number	I _{hold}	I _{trip} (A)	V _{max} (V)	I _{max} (A)	P _{d typ} (W)	Maximum Time-to-Trip		Resistance (Ω)	
i ai t i tumber	(A)					(A)	(Sec)	R _{min}	R _{1max}
SHV2920P500/30-A	A 5.0	12.5	30	30	3.5	25.0	10.0	0.003	0.020
I_{trip} = Trip C	urrent: maxim urrent: minimu uum voltage de	m current	at which th	ne device v	will trip in 2	25° C still a	ir.		2/

Imax = Maximum fault current device can withstand without damage at rated voltage (Vmax)

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

= Minimum resistance of device in initial (un-soldered) state. Rmin

R1max = Maximum resistance of device reflow soldering of 260°C for 20 sec.

*Value specified were determined using the PWB with 0.150" *1.5oz copper traces.

Caution :Operation beyond the specified rating may result in damage and possible arcing and flame.

Specifications are subject to change without notice.

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Soldering Parameters

Тр **Critical Zone** T_L to T_P Ramp-up TL Ts_{max} emperature Ts_{min} Ramp-down t_s Preheat 25 t 25°C to Peak Time => **Profile Feature** Pb-Free Assembly Average Ramp-Up Rate (Tsmax to TP) 3℃/second max. Preheat -Temperature Min (Ts_{min}) 150℃ -Temperature Max (Ts_{max}) 200°C 60-180 seconds -Time (Ts_{min} to Ts_{max}) iential Time maintained above: 217℃ -Temperature (T_L) 60-150 seconds -Time (t_L) Peak Temperature (T_P) 260℃ Time within 5℃ of actual Peak Temperature (t_P) 20-40 seconds Ramp-Down Rate 6 ℃ /second max. Time 25℃ to Peak Temperature 8 minutes max. Storage Condition $0^{\circ}C \sim 35^{\circ}C, \leq 70^{\circ}RH$

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ΤM

• Recommended reflow methods: IR, vapor phase oven, hot air oven, N₂ environment for lead-free

- Recommended maximum paste thickness is 0.25mm (0.010 inch)
- Devices can be cleaned using standard industry methods and solvents.

Note 1: All temperature refer to topside of the package, measured on the package body surface.

Note 2: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.