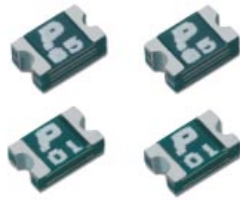


SMD2920

formerly No. 730



SMD Type, 6-60V

Approvals

cULus Recognition
TÜV

Features

These devices offer wide range in hold currents from 0.3 amps to 3.0 amps and voltages from 6 volts to 60 volts. The SMD2920 product line is suitable for high density circuit board applications in computers, telecommunications and general electronics.

WebLinks

Data Sheet

www.wickmann.com/products/SMD2920.pdf

Specifications

Packaging

00 Tape and reel Ø 178 mm

Materials

Terminals: Solder-plated copper
(Solder Material: 63/37 SnPb)

Max. Device Surface Temperature in Tripped State

125°C

Operating / Storage Temperature

-40°C to +85°C (consider de-rating)

Humidity Ageing

+85°C, 85% R.H., 1000 hours, ± 5% typical resistance change

Vibration

MIL-VTD-883C, Method 2007.1, Condition A, no change

Thermal Shock

MIL-STD-202F, Method 107G

+85°C to -40°C 20 times, -30% typical resistance change

Lead Solderability

Meets EIA Specification RS186-9E,
ANSI/J-STD-002, Category 3

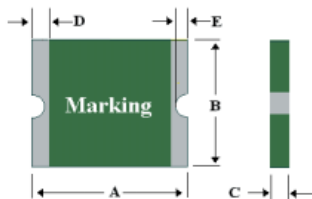
Solvent Resistance

MIL-STD-202, Method 215, no change

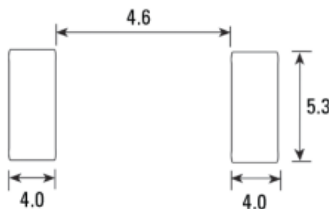
Marking

"P", Part Code, identification, lot number

Dimensions (mm)



Solder pad Layout (mm)



Dimensions (mm)

Model	A		B		C		D		E		packaging quantity tape
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
SMD2920P030TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P050TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P075TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P100TS	6.73	7.98	4.80	5.44	0.55	1.00	0.30	0.25	2.00		2,000
SMD2920P125TS	6.73	7.98	4.80	5.44	0.55	1.00	0.30	0.25	2.00		2,000
SMD2920P150TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P185TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P200TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P200TS/24	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P250TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P260TS	6.73	7.98	4.80	5.44	0.55	1.00	0.30	0.25	2.00		2,000
SMD2920P300TS	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500
SMD2920P300TS/15	6.73	7.98	4.80	5.44	0.75	1.25	0.30	0.25	2.00		1,500

Permissible continuous operating current is ≤ 100% at ambient temperature of 20°C (68°F).

Model	I _{hold}	V _{max. dc}	I _{max.} (A)	I _{trip} (A)	max. time to trip (sec. @ A)	P _{d max.} (W)	Resistance		Approvals	
							R _{min.} (Ω)	R _{I max.} (Ω)		
SMD2920P030TS	0.30A	60V	10	0.60	3.00 @ 1.50	1.5	1.200	4.800	•	•
SMD2920P050TS	0.50A	60V	10	1.00	4.00 @ 2.50	1.5	0.350	1.400	•	•
SMD2920P075TS	0.75A	30V	40	1.50	0.30 @ 8.00	1.5	0.350	1.000	•	•
SMD2920P100TS	1.10A	33V	40	2.20	0.50 @ 8.00	1.5	0.120	0.410	•	•
SMD2920P125TS	1.25A	15V	40	2.50	2.00 @ 8.00	1.5	0.070	0.250	•	•
SMD2920P150TS	1.50A	33V	40	3.00	2.00 @ 8.00	1.5	0.080	0.230	•	•
SMD2920P185TS	1.85A	33V	40	3.70	2.50 @ 8.00	1.5	0.065	0.150	•	•
SMD2920P200TS	2.00A	15V	40	4.00	5.00 @ 8.00	1.5	0.050	0.125	•	•
SMD2920P200TS/24	2.00A	24V	40	4.00	5.00 @ 8.00	1.5	0.050	0.125	•	•
SMD2920P250TS	2.50A	15V	40	5.00	10.00 @ 8.00	1.5	0.035	0.085	•	•
SMD2920P260TS	2.60A	6V	40	5.20	10.00 @ 8.00	1.5	0.025	0.075	•	•
SMD2920P300TS	3.00A	6V	40	6.00	20.00 @ 8.00	1.5	0.015	0.048	•	•
SMD2920P300TS/15	3.00A	15V	40	6.00	20.00 @ 8.00	1.5	0.015	0.048	•	•

NOTE:

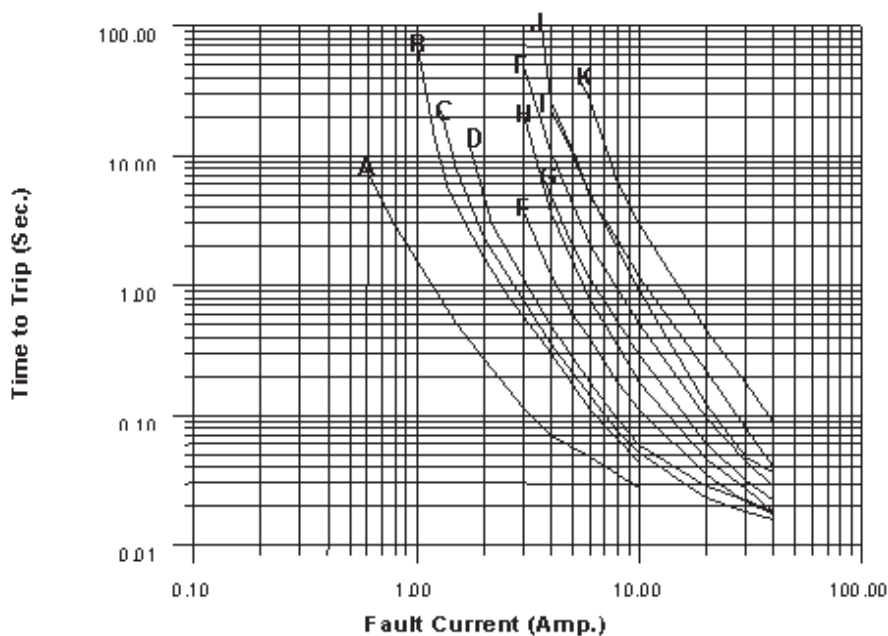
I_{hold} = Hold current: maximum current device will pass without tripping in 20°C still air.I_{trip} = Trip current: minimum current at which the device will trip in 20°C still air.V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max}).I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).P_d = Power dissipated from device when in the tripped state at 20°C still air.R_{min} = Minimum resistance of device in initial (un-soldered) state.R_{I max} = Maximum resistance of device at 20°C measured one hour after tripping for 20 sec.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame. Specifications are subject to change without notice.

Order Information

Qty.	Order- Number	Model	Packaging

SMD2920



A: SMD2920P030TS
B: SMD2920P050TS
C: SMD2920P075TS
D: SMD2920P100TS
E: SMD2920P125TS
F: SMD2920P150TS
G: SMD2920P185TS
H: SMD2920P200TS
I: SMD2920P250TS
J: SMD2920P260TS
K: SMD2920P300TS

Thermal Derating Chart

Model	Ambient Operation Temperature - I_{hold} (A)								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
SMD2920P030TS	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.14
SMD2920P050TS	0.76	0.67	0.59	0.50	0.42	0.38	0.33	0.29	0.23
SMD2920P075TS	1.13	1.01	0.88	0.75	0.62	0.56	0.50	0.44	0.34
SMD2920P100TS	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
SMD2920P125TS	1.89	1.68	1.46	1.25	1.04	0.94	0.83	0.73	0.56
SMD2920P150TS	2.27	2.01	1.76	1.50	1.25	1.13	1.00	0.87	0.74
SMD2920P185TS	2.80	2.47	2.17	1.85	1.54	1.39	1.22	1.07	0.85
SMD2920P200TS	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90
SMD2920P250TS	3.78	3.35	2.93	2.50	2.08	1.88	1.65	1.45	1.13
SMD2920P260TS	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.48
SMD2920P300TS	4.53	4.02	3.51	3.00	2.52	2.26	1.99	1.75	1.34