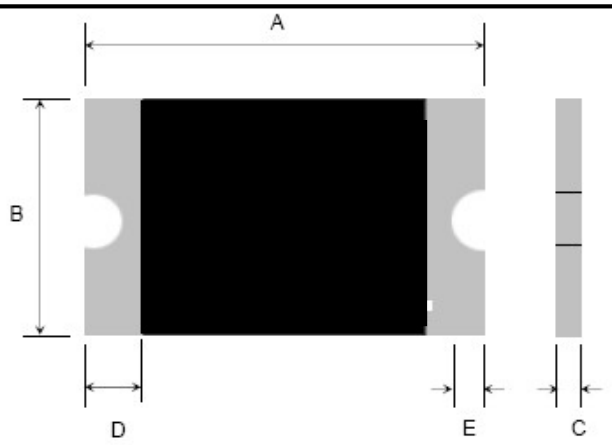
TERMINAL PAD SOLDERABILITY：

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



TERMINAL PAD MATERIALS：

Tin-Plated Nickel-Copper
Lead-Free，ROHS Compliant

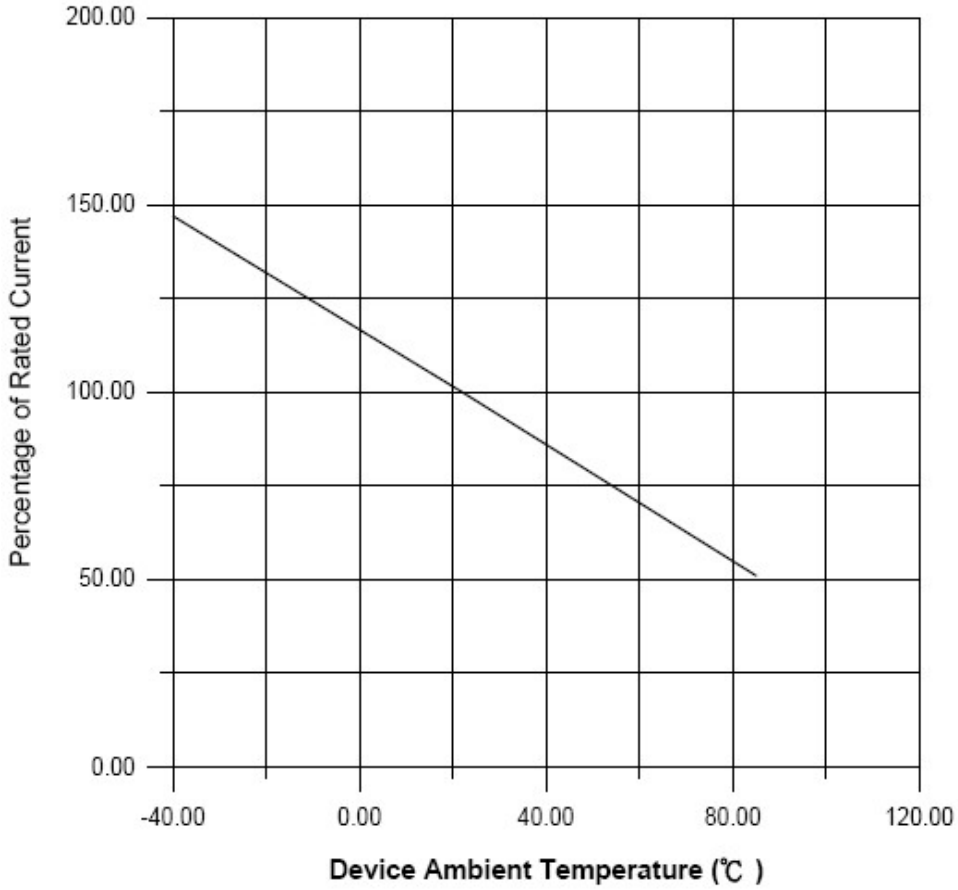
TABLE I. DIMENSIONS： Unit：mm

Model	A		B		C		D
	Min	Max	Min	Max	Min	Max	Min
SMD2920-030L	6.73	7.98	4.80	5.44	0.60	1.15	0.30
SMD2920-050L	6.73	7.98	4.80	5.44	0.60	1.15	0.30
SMD2920-075L	6.73	7.98	4.80	5.44	0.60	1.15	0.30
SMD2920-100L	6.73	7.98	4.80	5.44	0.40	1.00	0.30
SMD2920-125L	6.73	7.98	4.80	5.44	0.40	0.90	0.30
SMD2920-150L	6.73	7.98	4.80	5.44	0.40	0.90	0.30
SMD2920-185L	6.73	7.98	4.80	5.44	0.30	0.90	0.30
SMD2920-200L	6.73	7.98	4.80	5.44	0.30	0.90	0.30
SMD2920-250L	6.73	7.98	4.80	5.44	0.30	0.90	0.30
SMD2920-260L	6.73	7.98	4.80	5.44	0.30	0.90	0.30
SMD2920-300L	6.73	7.98	4.80	5.44	0.30	0.90	0.30

TABLE II. PERFORMANCE RATINGS：

Model	Vmax	Imax	Ihold@25℃	Itrip@25℃	Pd Typ.	Maximum Time TO Trip		Resistance		
	(Vdc)	(A)	(A)	(A)	(W)	Current (A)	Time (Sec)	Rimin (Ω)	Rityp (Ω)	Rimax (Ω)
SMD2920-030L	60	100	0.30	0.60	1.500	1.5	3.0	0.600	0.900	4.800
SMD2920-050L	60	100	0.50	1.00	1.500	2.5	4.0	0.180	0.280	1.400
SMD2920-075L	33	100	0.75	1.50	1.500	8.0	0.3	0.100	0.155	1.000
SMD2920-100L	33	100	1.10	2.20	1.500	8.0	0.5	0.065	0.090	0.410
SMD2920-125L	33	100	1.25	2.50	1.500	8.0	2.0	0.050	0.070	0.250
SMD2920-150L	33	100	1.50	3.00	1.500	8.0	2.0	0.035	0.045	0.230
SMD2920-185L	33	100	1.85	3.70	1.500	8.0	2.5	0.030	0.040	0.150
SMD2920-200L	16	100	2.00	4.00	1.500	8.0	4.5	0.020	0.028	0.120
SMD2920-250L	16	100	2.50	5.00	1.500	8.0	16.0	0.020	0.028	0.085
SMD2920-260L	6	100	2.50	5.20	1.500	8.0	10.0	0.014	0.020	0.075
SMD2920-300L	6	100	3.00	6.00	1.500	8.0	20.0	0.012	0.017	0.048

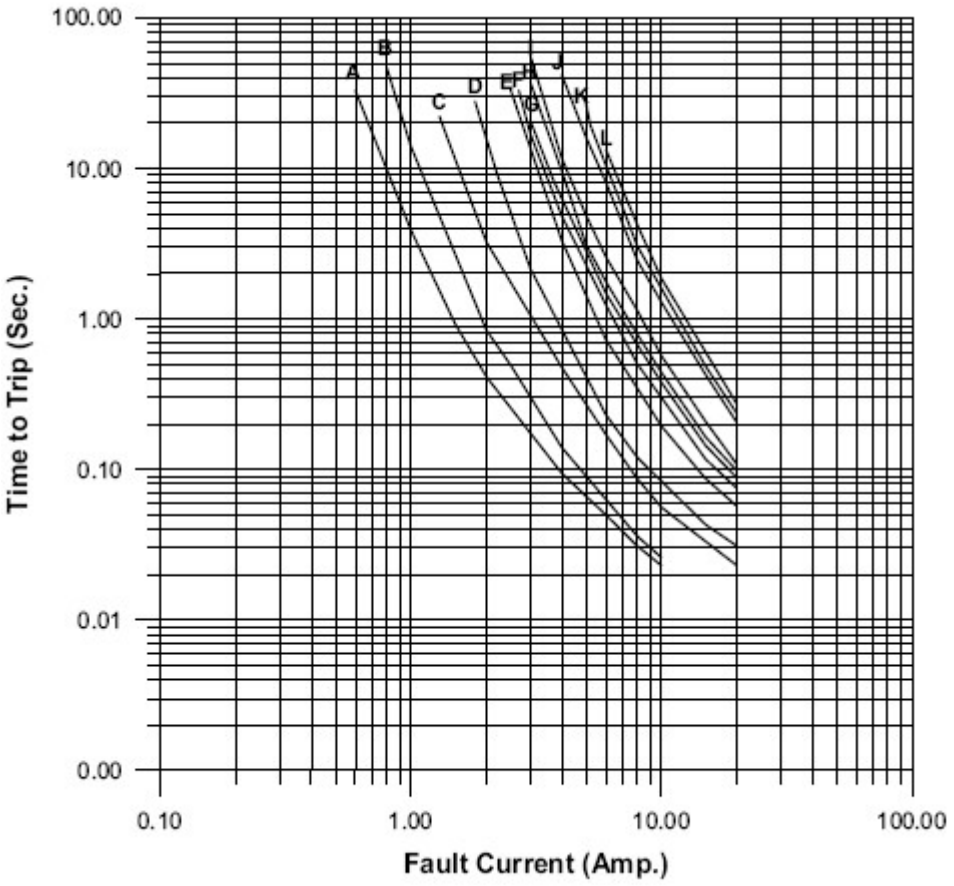
THERMAL DERATING CURVE FOR SMD2920 SERIES



THERMAL DERATING CHART FOR SMD2920 SERIES-IHOLD(Amps) RECOMMENDED DATA

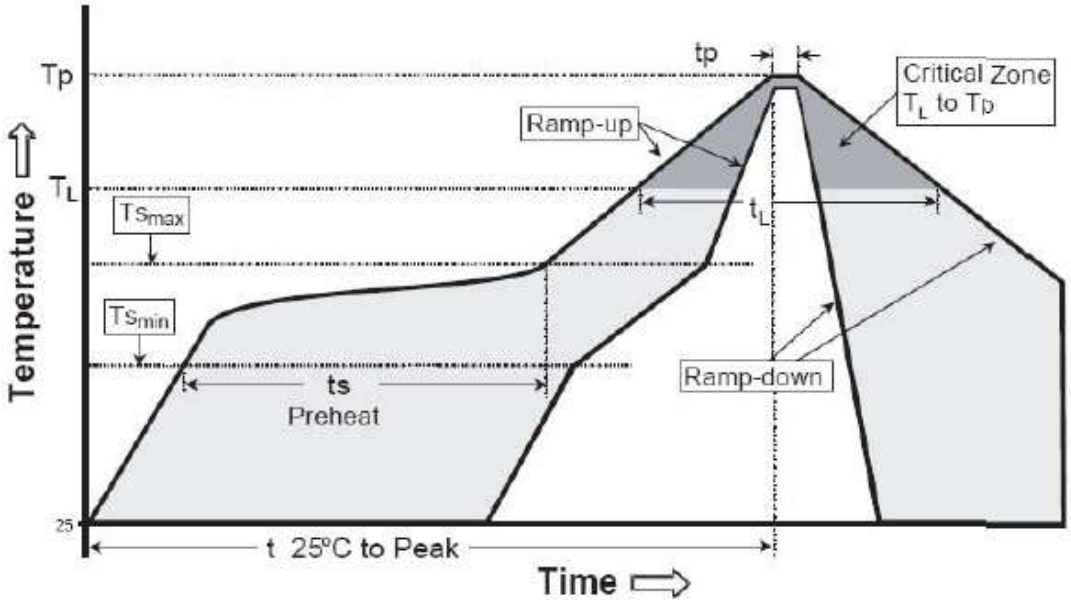
Model	Ambient Operation Temperature								
	-40℃	-20℃	0℃	23℃	40℃	50℃	60℃	70℃	85℃
SMD2920-030L	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.14
SMD2920-050L	0.76	0.67	0.59	0.50	0.42	0.33	0.33	0.29	0.23
SMD2920-075L	1.13	1.01	0.88	0.75	0.62	0.56	0.50	0.44	0.34
SMD2920-100L	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
SMD2920-125L	1.89	1.68	1.46	1.25	1.04	0.94	0.83	0.73	0.53
SMD2920-150L	2.27	2.01	1.76	1.50	1.25	1.13	1.00	0.87	0.74
SMD2920-185L	2.80	2.47	2.17	1.85	1.54	1.39	1.22	1.07	0.85
SMD2920-200L	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90
SMD2920-250L	3.78	3.35	2.93	2.50	2.08	1.88	1.65	1.45	1.13
SMD2920-260L	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.48
SMD2920-300L	4.20	3.85	3.44	3.00	2.69	2.50	2.31	2.12	1.83

AVERAGE TIME-CURRENT CURVE FOR SMD2920 SERIES



A-SMD2920-030L
B-SMD2920-050L
C-SMD2920-075L
D-SMD2920-100L
E-SMD2920-125L
F-SMD2920-150L
G-SMD2920-185L
H-SMD2920-200L/24V
I-SMD2920-200
J-SMD2920-250
K-SMD2920-260
L-SMD2920-300

SOLDER REFLOW



RECOMMENDED CONCITIONS

Profile Feature	Pd-Free Assembly
Average Ramp-Up Rate(Tsmax to Tp)	3℃/second max
Preheat —Temperature Min(Tsmin) —Temperature Max(Tsmax) —Time(Tsmin to Tsmax)	 150℃ 200℃ 60-180seconds
Time maintained above： —Temperature(TL) —Time(tL)	 217℃ 60-150seconds
Peak Temperature(Tp)	260℃
Time within 5℃ of actual Peak Temperature(tp)	20-40seconds
Ramp-Down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8minutes max.
Storage Condition	0℃~35℃，≤70%RH

Note：1.All temperature refer to topside of the package，measured on the package body surface.
2.If reflow temperature exceed the recommended profile，devices

PACKAGING

Part Number	Component Package	Quantity
SMD2920-030L	2920	2000
SMD2920-050L	2920	2000
SMD2920-075L	2920	2000
SMD2920-100L	2920	2000
SMD2920-125L	2920	2000
SMD2920-150L	2920	2000
SMD2920-185L	2920	2000
SMD2920-200L	2920	2000
SMD2920-250L	2920	2000
SMD2920-260L	2920	2000
SMD2920-300L	2920	2000