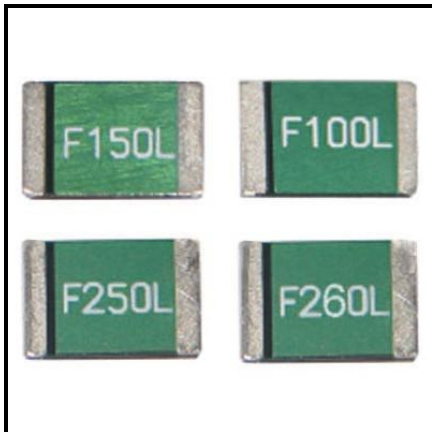


## FSMD2920 Series

**RoHS Compliant &**

**Halogen Free**



### Application:

All high-density boards

**Product Features:** 2920 Dimension, Surface mountable, Solid state, Faster time to trip than standard SMD devices.

**Operation Current:** 0.3A~3.0A

**Maximum Voltage:** 6V~60V<sub>DC</sub>

**Temperature Range:** -40°C to 85°C

**Agency Recognition:** UL (E211981)

C-UL (E211981)

TÜV (R50090556)

## Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Max. Current	Typical Power	Max. Time to Trip		Resistance	
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , V <sub>DC</sub>	I <sub>MAX</sub> , A	P <sub>d</sub> , W	Current	Time	R <sub>MIN</sub>	R <sub>1MAX</sub>
						A	Sec	Ohms	Ohms
FSMD030-2920	0.30	0.60	60	10	1.5	1.5	3.0	1.000	4.800
FSMD050-2920	0.50	1.00	60	10	1.5	2.5	4.0	0.300	1.400
FSMD075-2920	0.75	1.50	33	40	1.5	8.0	0.3	0.180	1.000
FSMD100-2920	1.10	2.20	33	40	1.5	8.0	0.5	0.090	0.410
FSMD125-2920	1.25	2.50	33	40	1.5	8.0	2.0	0.050	0.250
FSMD150-2920	1.50	3.00	33	40	1.5	8.0	2.0	0.050	0.230
FSMD185-2920	1.85	3.70	33	40	1.5	8.0	2.5	0.040	0.150
FSMD200-2920	2.00	4.00	16	40	1.5	8.0	4.5	0.035	0.120
FSMD250-2920	2.50	5.00	16	40	1.5	8.0	16.0	0.025	0.085
FSMD260-2920	2.60	5.20	6	40	1.5	8.0	20.0	0.020	0.075
FSMD300-2920	3.00	5.20	6	40	1.5	8.0	25.0	0.010	0.048

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.

I<sub>T</sub>=Trip current-minimum current at which the device will always trip at 23°C still air.

V<sub>MAX</sub>=Maximum voltage device can withstand without damage at it rated current.(I<sub>MAX</sub>)

I<sub>MAX</sub>= Maximum fault current device can withstand without damage at rated voltage (V<sub>MAX</sub>).

P<sub>d</sub>=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

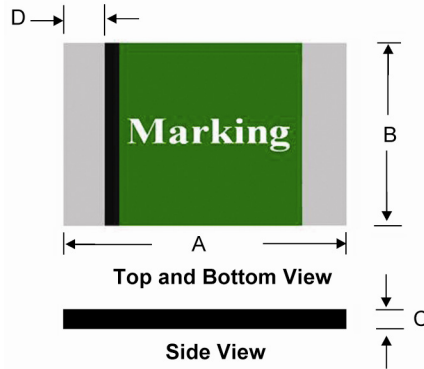
R<sub>MIN</sub>=Minimum device resistance at 23°C prior to tripping.

R<sub>1MAX</sub>=Maximum resistance of device at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

Termination pad materials: Pure Tin

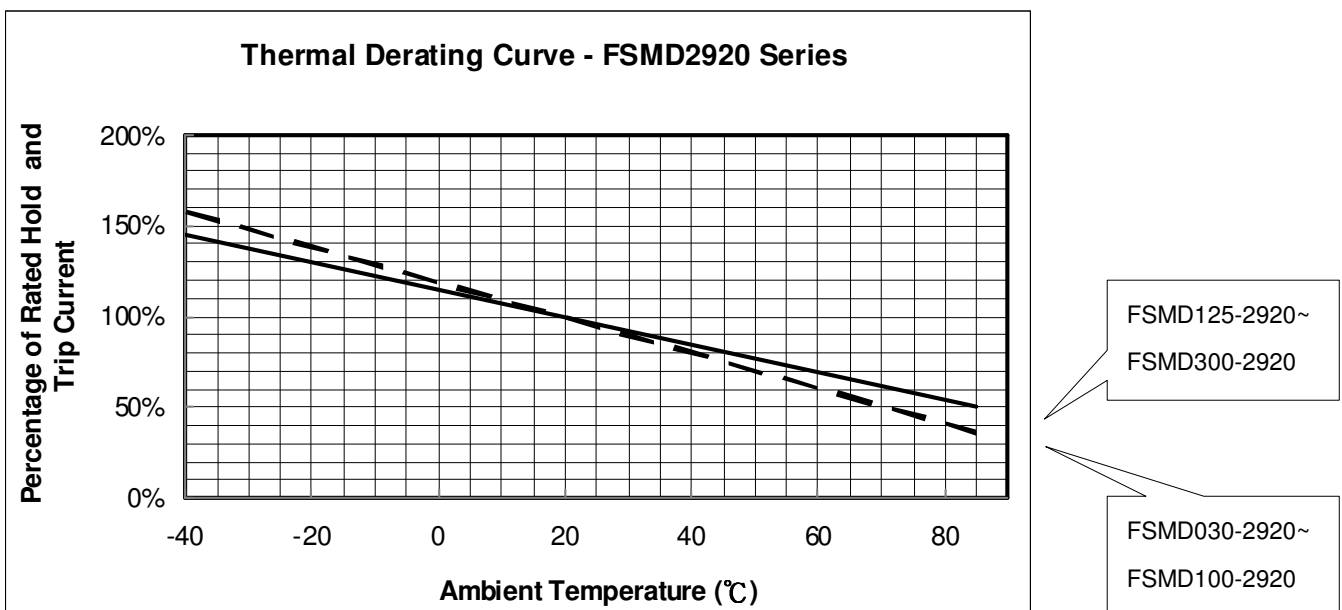
## FSMD2920 Product Dimensions (Millimeter)



For Reflow Soldering Profile information, please refer to P.90” IV APPENDIX - SMD PRODUCT SOLDER REFLOW RECOMMENDATIONS “

Part Number	A		B		C		D
	Min	Max	Min	Max	Min	Max	Min
FSMD030-2920	6.73	7.98	4.80	5.44	0.60	1.15	0.35
FSMD050-2920	6.73	7.98	4.80	5.44	0.60	1.15	0.35
FSMD075-2920	6.73	7.98	4.80	5.44	0.40	1.15	0.35
FSMD100-2920	6.73	7.98	4.80	5.44	0.40	1.00	0.35
FSMD125-2920	6.73	7.98	4.80	5.44	0.40	0.90	0.35
FSMD150-2920	6.73	7.98	4.80	5.44	0.40	0.90	0.35
FSMD185-2920	6.73	7.98	4.80	5.44	0.30	0.90	0.35
FSMD200-2920	6.73	7.98	4.80	5.44	0.30	0.90	0.35
FSMD250-2920	6.73	7.98	4.80	5.44	0.30	0.90	0.35
FSMD260-2920	6.73	7.98	4.80	5.44	0.30	0.90	0.35
FSMD300-2920	6.73	7.98	4.80	5.44	0.30	0.90	0.35

## Thermal Derating Curve

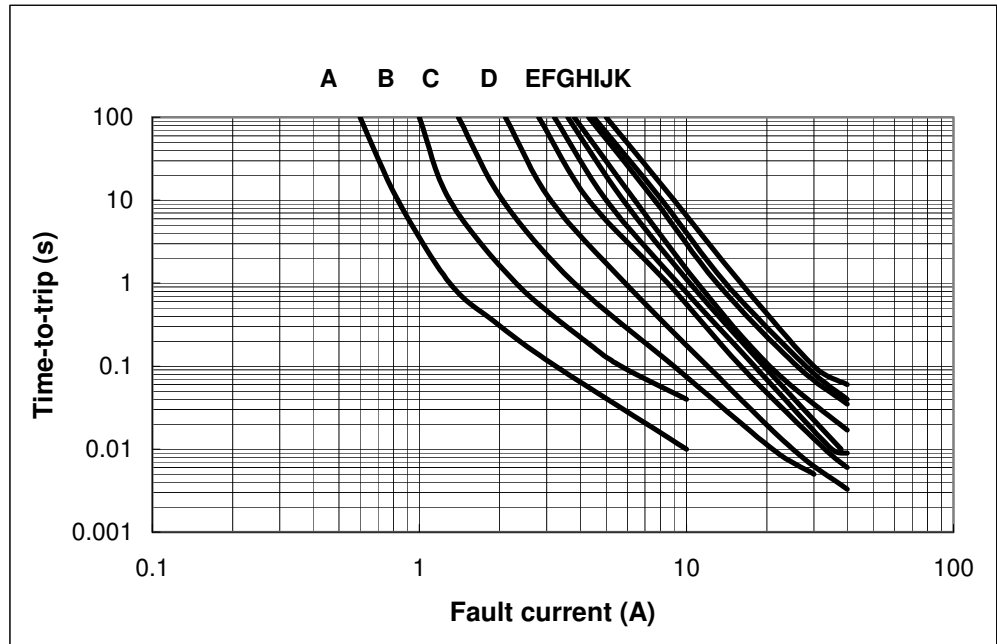


# III - Product – Surface Mount PTC

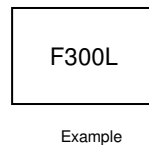
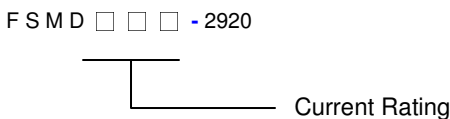


## Typical Time-To-Trip at 23°C

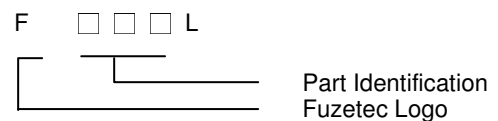
- A = FSMD030-2920
- B = FSMD050-2920
- C = FSMD075-2920
- D = FSMD100-2920
- E = FSMD125-2920
- F = FSMD150-2920
- G = FSMD185-2920
- H = FSMD200-2920
- I = FSMD250-2920
- J = FSMD260-2920
- K = FSMD300-2920



### Part Numbering System



### Part Marking System



### Standard Package

P/N	Reel/Tape
FSMD030-2920	2K
FSMD050-2920	2K
FSMD075-2920	2K
FSMD100-2920	2K
FSMD125-2920	2K
FSMD150-2920	2K

P/N	Reel/Tape
FSMD185-2920	2K
FSMD200-2920	2K
FSMD250-2920	2K
FSMD260-2920	2K
FSMD300-2920	2K

- Warning:**
- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
  - PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
  - Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

