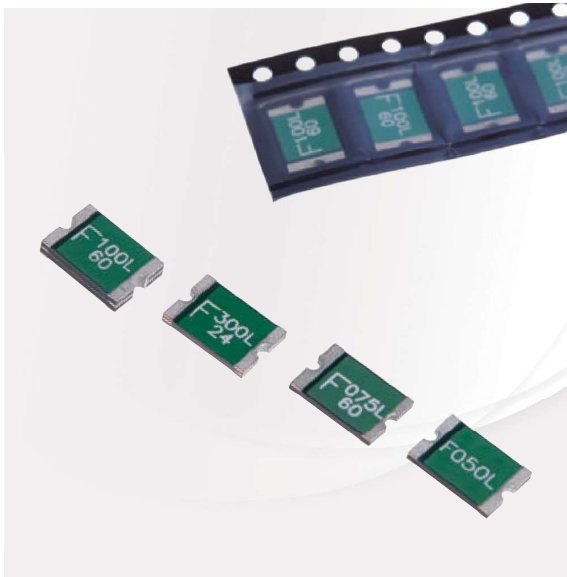


FSMD2920 Series



Application

All high-density boards

Product Features

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



Operation Current

0.30A~7.00A

Maximum Voltage

6V~60V_{DC}



Temperature Range

-40°C to 85°C

Agency Recognition

AGENCY	AGENCY FILE NUMBER
	UL(E211981)
	C-UL(E211981)
	TÜV (R50090556)



SVHC Compliant

Electrical Characteristics (23°C)

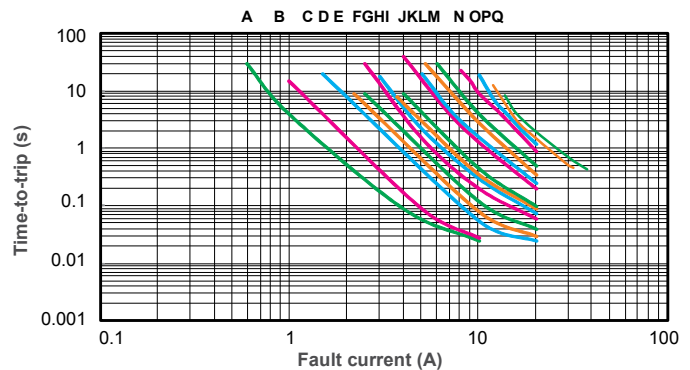
Part Number	Hold Current	Trip Current	Rated Voltage	Max. Current	Typ. Power	Max. Time to trip		Resistance	
	I _H , A	I _T , A	V _{MAX} , V _{DC}	I _{MAX} , A	Pd, W	Current	Time	R _{MIN}	R _{1MAX}
						A	Sec	Ohms	Ohms
FSMD030-2920-R	0.30	0.60	60	100	1.5	1.5	3.0	1.000	4.800
FSMD050-2920-R	0.50	1.00	60	100	1.5	2.5	4.0	0.300	1.400
FSMD075-2920-R	0.75	1.50	33	100	1.5	8.0	0.3	0.180	1.000
FSMD075-60-2920-R	0.75	1.50	60	100	1.5	8.0	0.3	0.180	1.000
FSMD100-2920-R	1.10	2.20	33	100	1.5	8.0	0.5	0.090	0.410
FSMD110-60-2920R	1.10	2.20	60	100	1.5	8.0	0.5	0.090	0.410
FSMD125-2920-R	1.25	2.50	33	100	1.5	8.0	2.0	0.050	0.250
FSMD150-2920-R	1.50	3.00	33	100	1.5	8.0	2.0	0.050	0.230
FSMD185-2920-R	1.85	3.70	33	100	1.5	8.0	2.5	0.040	0.150
FSMD200-2920-R	2.00	4.00	16	100	1.5	8.0	5.0	0.035	0.120
FSMD200-24-2920-R	2.00	4.00	24	100	1.5	8.0	5.0	0.035	0.120
FSMD250-2920-R	2.50	5.00	16	100	1.5	8.0	16.0	0.025	0.085
FSMD260-2920-R	2.60	5.20	6	100	1.5	8.0	20.0	0.020	0.075
FSMD260-24-2920R	2.60	5.20	24	100	1.5	8.0	20.0	0.020	0.075
FSMD300-2920-R	3.00	5.20	6	100	1.5	8.0	25.0	0.010	0.048
FSMD300-15-2920R	3.00	5.20	15	100	1.5	8.0	20.0	0.010	0.048
FSMD300-24-2920R	3.00	5.20	24	100	1.5	8.0	20.0	0.010	0.048
FSMD330-2920R	3.30	5.50	24	100	1.5	8.0	20.0	0.010	0.048
FSMD400-16-2920R	4.00	8.00	16	100	1.5	20.0	4.0	0.010	0.040
FSMD500-16-2920R	5.00	10.00	16	100	1.5	20.0	5.0	0.005	0.025
FSMD600-12-2920R	6.00	12.00	12	100	2.0	30.0	2.0	0.004	0.020
FSMD700-12-2920R	7.00	14.00	12	100	2.0	35.0	2.0	0.003	0.018

Thermal Derating for PPTC Device at Various Ambient Temperatures

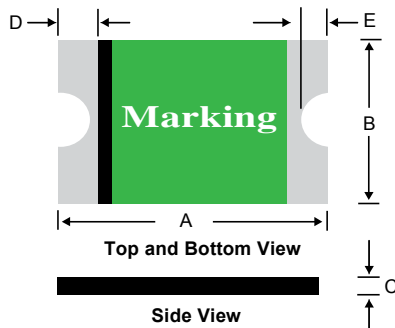
TEMPERATURE	-40°C	-20°C	0°C	23°C	30°C	40°C	50°C	60°C	70°C	85°C
DERATING %	145%	130%	115%	100%	92%	85%	78%	70%	62%	50%

Typical Time-To-Trip at 23°C

A = FSMD030-2920-R	J = FSMD250-2920-R
B = FSMD050-2920-R	K = FSMD260-2920-R
C = FSMD075-2920-R	/ 260-24-2920R
/ 075-60-2920-R	L = FSMD300-2920R
D = FSMD100-2920-R	/ 300-15-2920R
E = FSMD110-60-2920R	/ 300-24-2920R
F = FSMD125-2920-R	M = FSMD330-2920R
G = FSMD150-2920-R	N = FSMD400-16-2920R
H = FSMD185-2920-R	O = FSMD500-16-2920R
I = FSMD200-2920-R	P = FSMD600-12-2920R
/ 200-24-2920-R	Q = FSMD700-12-2920R



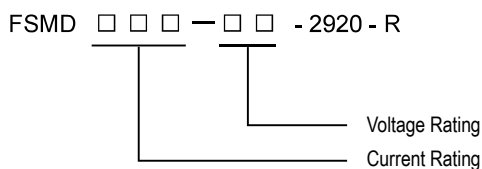
FSMD2920 Product Dimensions (mm)



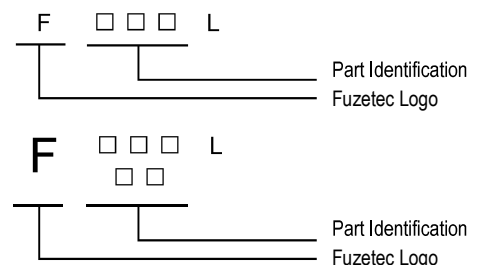
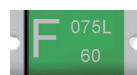
*For Reflow Soldering Profile information, please refer to P.75 “VIII APPENDIX - SMD PRODUCT SOLDER REFLOW RECOMMENDATIONS”

Part Number	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
FSMD030-2920-R	6.73	7.98	4.80	5.44	0.60	1.15	0.50	1.20	0.50	0.90
FSMD050-2920-R	6.73	7.98	4.80	5.44	0.60	1.15	0.50	Max	Min	0.90
FSMD075-2920-R	6.73	7.98	4.80	5.44	0.40	1.15	0.50	1.20	0.50	0.90
FSMD075-60-2920-R	6.73	7.98	4.80	5.44	0.60	1.15	0.50	1.20	0.50	0.90
FSMD100-2920-R	6.73	7.98	4.80	5.44	0.40	1.00	0.50	1.20	0.50	0.90
FSMD110-60-2920R	6.73	7.98	4.80	5.44	0.40	1.70	0.50	1.20	0.50	0.90
FSMD125-2920-R	6.73	7.98	4.80	5.44	0.40	0.90	0.50	1.20	0.50	0.90
FSMD150-2920-R	6.73	7.98	4.80	5.44	0.40	0.90	0.50	1.20	0.50	0.90
FSMD185-2920-R	6.73	7.98	4.80	5.44	0.30	0.90	0.50	1.20	0.50	0.90
FSMD200-2920-R	6.73	7.98	4.80	5.44	0.30	0.90	0.50	1.20	0.50	0.90
FSMD200-24-2920-R	6.73	7.98	4.80	5.44	0.20	0.80	0.50	1.20	0.50	0.90
FSMD250-2920-R	6.73	7.98	4.80	5.44	0.30	0.90	0.50	1.20	0.50	0.90
FSMD260-2920-R	6.73	7.98	4.80	5.44	0.30	0.90	0.50	1.20	0.50	0.90
FSMD260-24-2920R	6.73	7.98	4.80	5.44	0.65	1.15	0.50	1.20	0.50	0.90
FSMD300-2920-R	6.73	7.98	4.80	5.44	0.40	0.90	0.50	1.20	0.50	0.90
FSMD300-15-2920R	6.73	7.98	4.80	5.44	0.40	1.15	0.50	1.20	0.50	0.90
FSMD300-24-2920R	6.73	7.98	4.80	5.44	0.65	1.15	0.50	1.20	0.50	0.90
FSMD330-2920R	6.73	7.98	4.80	5.44	0.65	1.15	0.50	1.20	0.50	0.90
FSMD400-16-2920R	6.73	7.98	4.80	5.44	0.40	1.50	0.50	1.20	0.50	0.90
FSMD500-16-2920R	6.73	7.98	4.80	5.44	0.40	1.50	0.50	1.20	0.50	0.90
FSMD600-12-2920R	6.73	7.98	4.80	5.44	0.40	1.70	0.50	1.20	0.50	0.90
FSMD700-12-2920R	6.73	7.98	4.80	5.44	0.30	1.50	0.50	1.20	0.50	0.90

Part Numbering System



Part Marking System



Package Information

Part Number	Standard Package
FSMD030-2920-R-FSMD100-2920-R	: 2.0K Reel/Tape
FSMD110-60-2920R	: 1.0K Reel/Tape
FSMD125-2920-R-FSMD330-2920R	: 2.0K Reel/Tape
FSMD400-16-2920R-FSMD500-16-2920R	: 1.0K Reel/Tape
FSMD600-12-2920R-FSMD700-12-2920R	: 2.0K Reel/Tape

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.

Physical specifications

Termination pad materials	Pure Tin
Soldering characteristics	Meets EIA specification RS 186-9E, ANSI/J-std-002 Category 3