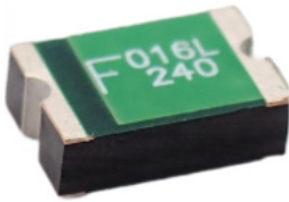


Surface Mountable PTC Resettable Fuse **multicomp**PRO

RoHS
Compliant



Applications

- All high-density boards

Features

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

Specification

Operation Current : 50mA to 160mA
Maximum Operating Voltage : 240V AC/250V AC
Temperature Range : -40°C to 85°C

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip		Max. Current	Max. Oper. Voltage	Max. Int. Voltage	Typ. Power	Resistance		
			Current	Time					R _{MIN}	R _{MAX}	R _{1MAX}
			A	Sec	I _{MAX} , A	V _{MAX} , VAC	V _{I-MAX} , VAC	P _d , W	Ohms	Ohms	Ohms
MCFSMD005-240-2920-R	0.05	0.12	0.25	15	1	240	250	1.5	10	55	70
MCFSMD008-240-2920-R	0.08	0.19	0.4		1.2				6	16	25
MCFSMD012-240-2920-R	0.12	0.3	0.6		1.2				6	14	20
MCFSMD013-240-2920-R	0.13	0.32	0.65		1.2				2	6	12
MCFSMD016-240-2920-R	0.16	0.37	0.8		2				2	5	11

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.

I_T=Trip current-minimum current at which the device will always trip at 23°C still air.

V_{MAX}=Maximum voltage device can withstand without damage at it rated current.(I_{MAX})

I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

P_d=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

R_{MIN}=Minimum device resistance at 23°C prior to tripping.

R_{MAX}=Maximum device resistance at 23°C.

R_{1MAX}=Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 seconds.

Termination pad characteristics

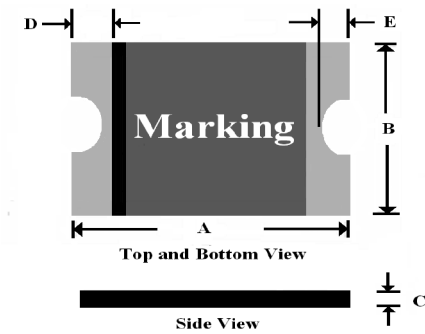
Termination pad materials : Pure Tin

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicompPRO

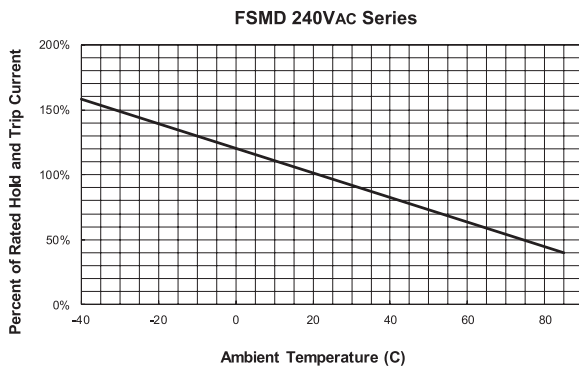
Surface Mountable PTC Resettable Fuse **multicomp**PRO

FSMD Product Dimensions (Millimeters)

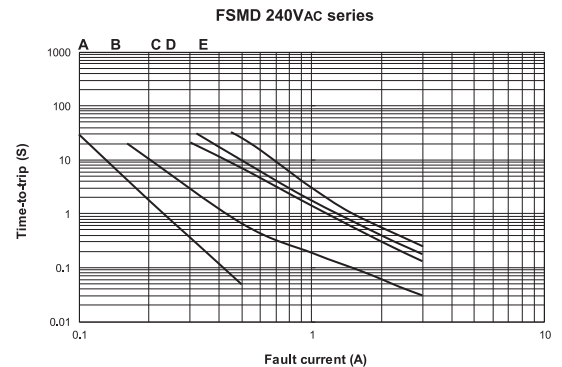


Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MCFSMD005-240-2920-R	6.73	7.98	4.58	5.44	2	2.6	0.5	1.2	0.5	0.9
MCFSMD008-240-2920-R										
MCFSMD012-240-2920-R										
MCFSMD013-240-2920-R										
MCFSMD016-240-2920-R										

Thermal Derating Curve



Typical Time-To-Trip at 23°C



A = MCFSMD005-240-2920-R
B = MCFSMD008-240-2920-R
C = MCFSMD012-240-2920-R
D = MCFSMD013-240-2920-R
E = MCFSMD016-240-2920-R

Part Number Table

Description	Part Number
Surface Mountable PTC Resettable Fuse, 240V AC, 0.05 A, 0.12 A	MCFSMD005-240-2920-R
Surface Mountable PTC Resettable Fuse, 240V AC, 0.08 A, 0.19 A	MCFSMD008-240-2920-R
Surface Mountable PTC Resettable Fuse, 240V AC, 0.12 A, 0.3 A	MCFSMD012-240-2920-R
Surface Mountable PTC Resettable Fuse, 240V AC, 0.13 A, 0.32 A	MCFSMD013-240-2920-R
Surface Mountable PTC Resettable Fuse, 240V AC, 0.16 A, 0.37 A	MCFSMD016-240-2920-R

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