# Radial Leaded PTC Resettable Fuse **Multicomp** PRO



### **Applications**

- Line Voltage Power Supply
- Transformer and Appliances

### Features

- Low hold current
- Solid state
- Radial leaded product ideal for up to 330V AC/DC

### **Electrical Characteristics (23°C)**

## Specification

Operation Current	: 0.05A to 2A
Maximum Operating Voltage	: 277V AC
Maximum Interrupt Voltage	: 305V AC
Temperature Range	: -20°C to 85°C

RoHS

**Compliant** 

Part Number	Hold Current	Trip Current	Max.Time to Trip	Max. Current	Rated Voltage	Max. Int. Voltage	Typ. Power	Resistance	
								RMIN	R1мах
	IH, A	IT, A	at 5XIH,S	Imax, <b>A</b>	Vmax, Vac	VI-MAX, VAC	Pd, W	Ohms	Ohms
MCFRV005-277F	0.05	0.2	18	1			0.7	8	26
MCFRV008-277F	0.08	0.26	18	1.2			0.8	4.5	18
MCFRV012-277F	0.12	0.3	18	1.2			1	3	12
MCFRV016-277F	0.16	0.37	18	1.6			1.4	2.3	8
MCFRV025-277F	0.25	0.56	18.5	2.5			1.5	1.3	4.3
MCFRV033-277F	0.33	0.74	21	3.3			1.7	0.94	3.1
MCFRV040-277F	0.4	0.9	24	4	277	305	2	0.81	2.7
MCFRV055-277F	0.55	1.25	26	5.5			2.4	0.63	2.1
MCFRV075-277F	0.75	1.5	18	7.5			2.6	0.43	1.4
MCFRV100-277F	1	2	21	10			2.9	0.32	1.1
MCFRV125-277F	1.25	2.5	23	12.5			3.3	0.24	0.8
MCFRV150-277F	1.5	3	23	15			3.7	0.14	0.48
MCFRV200-277F	2	4	28	20			4.5	0.09	0.29

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

IT=Trip current-minimum current at which the device will always trip at 23v still air.

V MAX=Maximum voltage device can withstand without damage at its rated current.

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

Pd=Typical power dissipated from device when in tripped state in 23°C still air environment.

RMIN=Minimum device resistance at 23v.

R1MAX=Maximum device resistance at 23°C, 1 hour after tripping.

Physical specifications:

Lead material: FRV005-277F~FRV016-277F Tin plated copper, 24AWG. FRV025-277F~FRV040-277F Tin plated copper, 22AWG. FRV055-277F~FRV200-277F Tin plated copper, 20AWG. Soldering characteristics: MIL-STD-202, Method 208E.

Insulating coating:Flame retardant epoxy, meets UL-94V-0 requirement.

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# **Production Dimensions (millimetre)**





Fig.1 Lead Size: 24AWG Φ 0.51 mm Diameter



B D

E

Fig.3 Lead Size: 22AWG Φ 0.65 mm Diameter





Lead Size: 20AWG Φ 0.81 mm Diameter

Fig.5 Lead Size: 20AWG

Φ 0.81 mm Diameter

Dort Number Eigure		Α	В	С	D	E	F
Part Number	Figure	Maximum	Maximum	Typical	Minimum	Maximum	Typical
MCFRV005-277F	1	7.4	12.7	5.1		3.8	1.6
MCFRV008-277F	2	7.4	12.2	5.1		3.8	1.6
MCFRV012-277F	2	8.1	12.8	5.1		3.8	1.6
MCFRV016-277F	2	7.4	14.2	5.1	]	3.8	1.6
MCFRV025-277F	3	8.9	15.2	5.1	]	3.8	1.8
MCFRV033-277F	3	12.6	15.5	5.1	]	3.8	1.8
MCFRV040-277F	3	12.6	15.5	5.1	7.6	3.8	1.8
MCFRV055-277F	4	12.6	16.5	5.1		4.1	1.9
MCFRV075-277F	4	15.8	20	5.1	]	4.8	1.9
MCFRV100-277F	4	16.3	21.7	10.2		5.1	1.9
MCFRV125-277F	5	18.8	24.5	10.2		5.3	1.9
MCFRV150-277F	5	23.8	28.3	10.2	]	5.3	1.9
MCFRV200-277F	4	25.2	30.6	10.2		6.1	1.9

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# **Thermal Derating Curve**



# Typical Time-To-Trip at 23°C



### **Part Number Table**

Description	Part Number
Radial Leaded PTC Resettable Fuse, 277V AC, 0.05 A, 0.2 A	MCFRV005-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.08 A, 0.26 A	MCFRV008-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.12 A, 0.3 A	MCFRV012-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.16 A, 0.37 A	MCFRV016-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.25 A, 0.56 A	MCFRV025-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.33 A, 0.74 A	MCFRV033-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.4 A, 0.9 A	MCFRV040-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.55 A, 1.25 A	MCFRV055-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 0.75 A, 1.5 A	MCFRV075-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 1 A, 2 A	MCFRV100-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 1.25 A, 2.5 A	MCFRV125-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 1.5 A, 3 A	MCFRV150-277F
Radial Leaded PTC Resettable Fuse, 277V AC, 2 A, 4 A	MCFRV200-277F

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