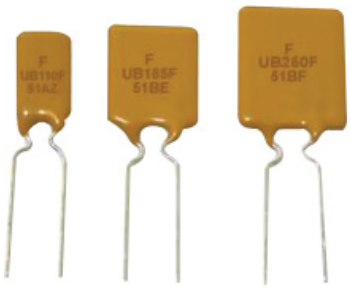
Resettable Fuse

RoHS Compliant



Specifications:

Applications	: Low voltage USB equipment and Computers & peripherals
Product Features	: Low resistance, Fast trip time, Low trip-to-hold ratio
Operation Current	: 750mA to 2.5A
Max. Voltage	: 16V / 30V
Temperature Range	: -40°C to +85°C

Electrical Characteristics (23°C)

Hold Current	Trip Current	Max. Time to trip		Max. Current	Rated Voltage	Typical Power	Resistance		Part Number
							R Min.	R1 Max.	
I_H, A	I_T, A	at 8A	at 5x I_H	I Max., A	V Max., V DC	Pd, W	ohms	ohms	
0.75	1.3	0.4	--	40	16	0.3	0.08	0.23	MC36245
0.9	1.8	1.2	5.9		16/30	0.6	0.07	0.18	MC36246
1.1	2.2	2.3	6.6			0.7	0.05	0.14	MC36247
1.2	2	0.5	--		16	0.6	0.04		MC36248
1.35	2.7	4.5	7.3		16/30	0.8		0.12	MC36249
1.55		0.6	--		16	0.7			MC36250
1.6	3.2	9	8		16/30	0.9	0.03	0.11	MC36251
1.85	3.7	10	8.7			1		0.09	MC36252
2.5	5	40	10.3			1.2	0.02	0.07	MC36253

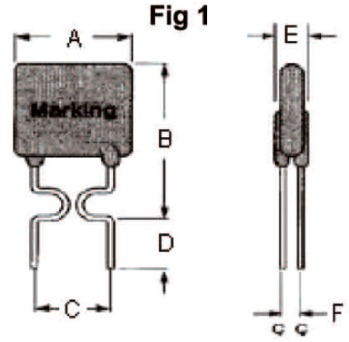
I_H = Hold current-maximum current at which the device will not trip at 23°C still air
I_T = Trip current-minimum current at which the device will always trip at 23°C still air
V_{MAX} = Maximum voltage device can withstand without damage at its rated current
I_{MAX} = Maximum fault current device can withstand without damage at rated voltage (V maximum)
Pd = Typical power dissipated from device when in the tripped state in 23°C still air environment
R_{MIN} = Minimum device resistance at 23°C
$R1_{MAX}$ = Maximum device resistance at 23°C 1 hour after tripping

Physical specifications:

Lead Material	: Tin plated copper, 24 AWG
Soldering Characteristics	: Solder ability per ANSI/J-STD 002 Solder heat withstand per IEC 68-2-20
Insulating Coating	: Flame retardant epoxy polymer

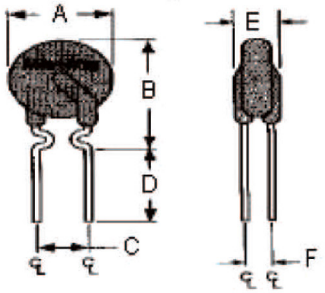
Production Dimensions

Fig 1



Lead Size : 24 AWG
Ø0.51mm Diameter

Fig 2

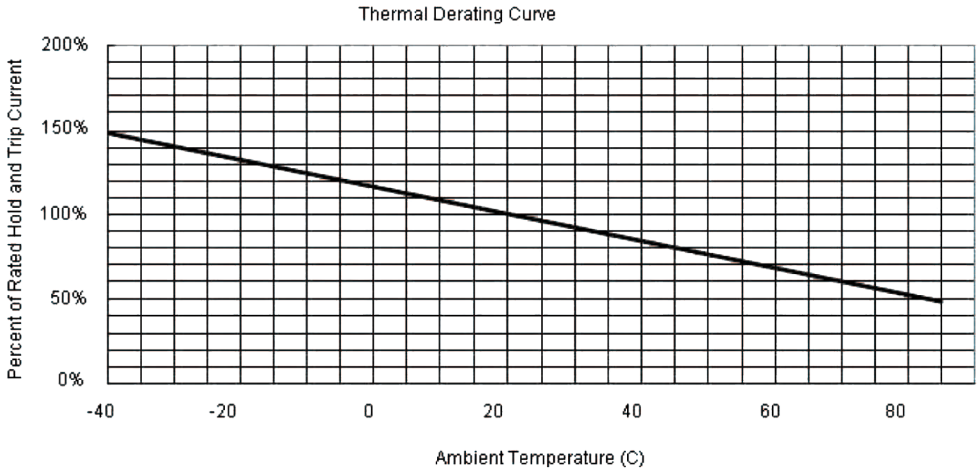


Lead Size : 24 AWG
Ø0.51mm Diameter

A	B	C	D	E	F	Part Number	Fig
Max.	Max.	Typical	Min.	Max.	Typical		
6.9	11.4	5.1	7.6	3	0.8	MC36245	2
7.4	12.2					MC36246	1
	14.2					MC36247	1
6.9	11.7					MC36248	2
8.9	13.5					MC36249	1
6.9	11.7					MC36250	2
8.9	15.2					MC36251	1
10.2	15.7					MC36252	1
11.4	18.3					MC36253	1

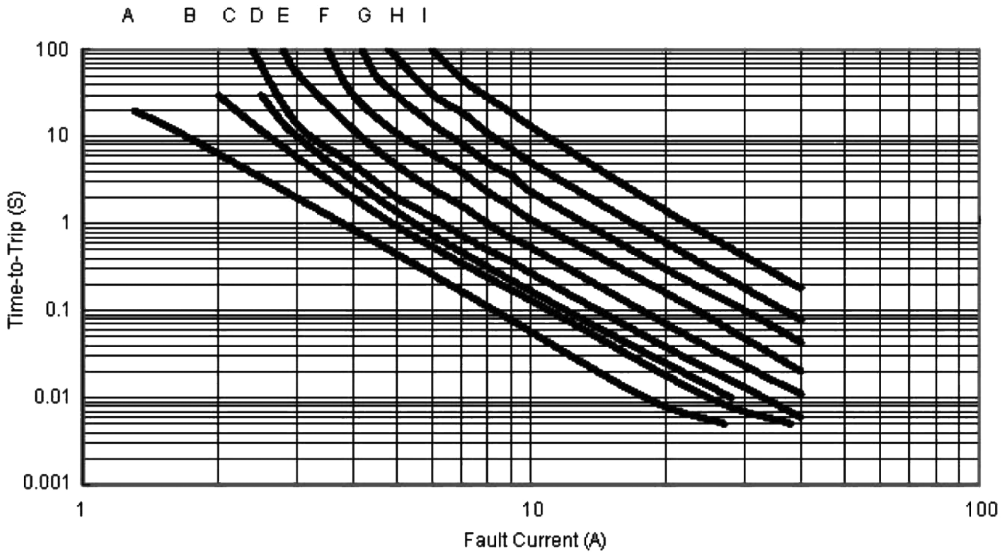
Dimensions : Millimetres

Thermal Derating Curve



Resettable Fuse

Typical Time-To-Trip at 23°C



A=MC36245
B=MC36246
C=MC36247
D=MC36248
E=MC36249
F=MC36250
G=MC36251
H=MC36252
I=MC36253

Material Specification:

Lead Material	: Tin plated copper, 24AWG
Soldering Characteristics	: MIL-STD-202, Method 208E
Insulating Coating	: Flame retardant epoxy

Part Number Table

Description	Part Number
Radial Leaded PTC Resettable Fuse	MC36245
	MC36246
	MC36247
	MC36248
	MC36249
	MC36250
	MC36251
	MC36252
	MC36253