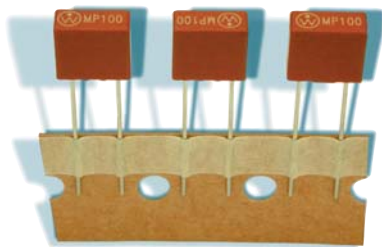
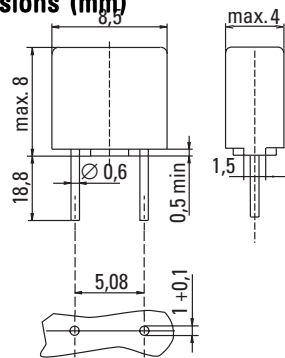


No. 398 / MP



Dimensions (mm)



Holes in PCB

Modul Protector®, 65 V
leadfreeFor Short Circuit Protection of
Sensitive Electronic Components
and AssembliesTime-Current Characteristic
Medium Time Lag (M)Approvals
cULus RecognizedOperating Criteria
Maximum continuous current:
 $I_C \geq I_{\text{operating max}} \times F_T \text{ time lag}$ Maximum melting integral:
 $I^2 t_{MP} < I^2 t_{\text{semiconductor (warm)}}$ Minimum fault current:
 $I_{\text{Fault}} \geq 3 \times I_C$ Maximum fault current:
 $I_{\text{Fault}} \leq 50A \text{ at } 65VAC/DC$

Features

For worldwide applications
Reduced PCB space requirements
Highly defined cut-off times
Irreversible physical separation
Low internal resistance
Flame resistant encapsulated casing

Specifications

Packaging

000: Tape/Ammopack (1400 pcs.)

Materials

Base/Cap: Brown Thermoplastic
Polyamide PA 6.6, UL 94 V-0

Round Pins: Copper, Sn plated

Operating Temperature

-40 °C to +85 °C (consider de-rating)

Climatic Category

-40 °C/+85 °C/21 days (EN 60068-1,-2-1,-2-2,-78)

Stock Conditions

+10 °C to +60 °C
relative humidity $\leq 75\%$ yearly average,
without dew, maximum value for 30 days-95 %

Vibration Resistance

24 cycles at 15 min. each (EN 60068-6)
10 - 60 Hz at 0.75 mm amplitude
60 - 2000 Hz at 10 g acceleration

Lead Pull Strength

10 N (EN 60068-2-21)

Solderability

260 °C, ≤ 3 s (Wave)
350 °C, ≤ 3 s (Soldering iron)

Soldering Heat Resistance

260 °C, 10 sec. (IEC 60068-2-20)

Marking

Ⓢ, Type

Unit Weight

0.60 g (approx.)

Permissible continuous operating current is $\leq 100\%$ at ambient temperature of 23 °C (73.4 °F).

Continuous Current I_C	Type	Amp Code	Voltage Rating	Fault Current max.	Cold Resistance $0.1 \times I_C$ typ. (mΩ)	Power Dissipation $1.0 \times I_C$ max. (mW)	Melting Integral $10 \times I_C$ typ. (A²s)	Approvals cULus
125mA	MP 13	0125	65V		900	50	0.0093	•
250mA	MP 25	0250	65V		355	50	0.045	•
315mA	MP 32	0315	65V		260	60	0.081	•
400mA	MP 40	0400	65V		186	75	0.18	•
500mA	MP 50	0500	65V		155	90	0.2	•
630mA	MP 63	0630	65V	50A/65 V AC/DC	115	120	0.37	•
800mA	MP 80	0800	65V	50-60 Hz	85	140	0.64	•
1.00A	MP100	1100	65V	$\cos \varphi = 1.0$	65	170	1.1	•
1.25A	MP125	1125	65V		48	210	2.3	•
1.60A	MP160	1160	65V		34	320	4.5	•
2.00A	MP200	1200	65V		26	425	7.8	•
2.50A	MP250	1250	65V		21	550	13	•
3.15A	MP315	1315	65V		16	650	23	•
4.00A	MP400	1400	65V		12	1000	40	•

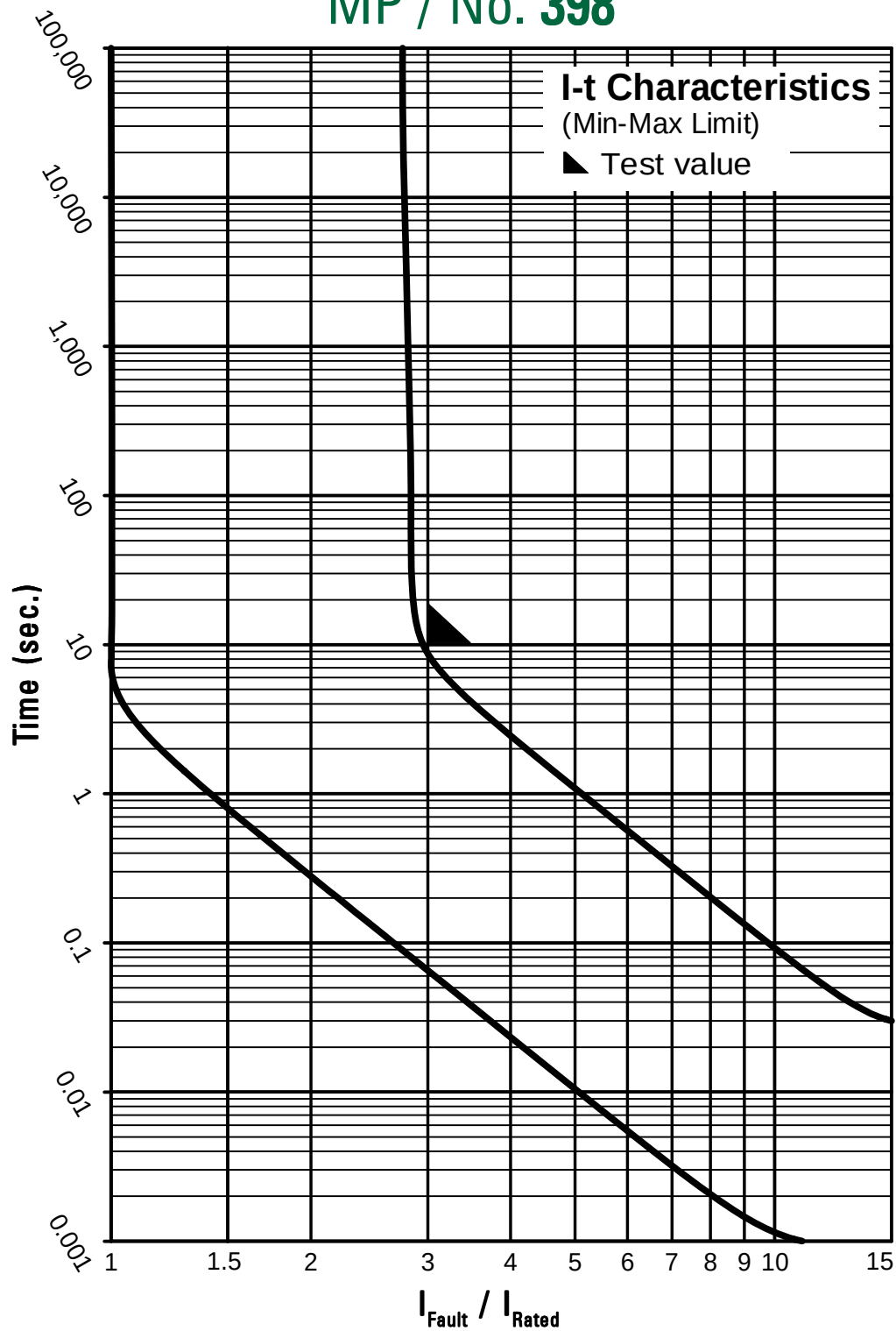
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

Order
Information

Qty.	Order- Number	Series	Amp Code	Packaging
		398		

Specifications are subject
to change without notice

MP / No. 398



Contact Littelfuse for individual I-t curves