SMD CHIP FUSE

MFU Series

SMD Chip Fuse for Secondary Over-Current Protection

KEY BENEFITS

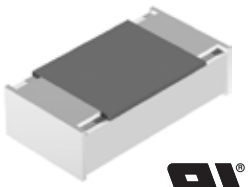
- Circuit protection
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Supports lead (Pb)-free soldering
- Meets requirements of IEC 60127-4 and UL 248-14
- Standard metric SMD sizes

APPLICATIONS

- Information technology
- Industrial electronics
- Automotive electronics
- Telecommunication
- Medical equipment
- Audio/video electronics

Datasheet is available on our web site at www.vishay.com
for MFU Series - http://www.vishay.com/doc?28747

Thin Film Flat Chip Fuses



FEATURES

- Advanced thin film technology
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Standard metric SMD sizes
- Green product, supports lead (Pb)-free soldering

APPLICATIONS

- Information technology
- Industrial electronics
- Automotive electronics
- Telecommunication
- Medical equipment
- Audio/video electronics

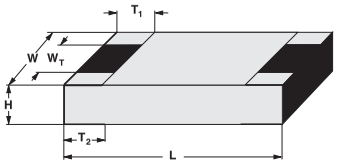
MFU Thin Film Flat Chip Fuses are the perfect choice for the most fields of modern electronics. The highly controlled manufacturing thin film process guarantees an outstanding stability of fusing characteristics. Typical applications include information technology, telecommunication, medical equipment, industrial, audio/video, and automotive electronics.

METRIC SIZE				
INCH:	0402	0603	0805	1206
METRIC:	RR 1005M	RR 1608M	RR 2012M	RR 3216M

TECHNICAL SPECIFICATION

DESCRIPTION		MFU 0402	MFU 0603	MFU 0805	MFU 1206
Metric size		RR 1005M	RR 1608M	RR 2012M	RR 3216M
Rated Current range I_R		0.5 A to 2.0 A	0.5 A to 5.0 A	0.5 A to 5.0 A	0.5 A to 6.3 A
Rated voltage, U_{max} DC		32 V	32 V	32 V	63 V
Breaking Capacity, I_{max} at U_{max} DC		50 A at 32 V	50 A at 32 V	50 A at 32 V	50 A at 63 V
Voltage drop at 1 x I_R		115 mV to 420 mV	85 mV to 361 mV	98 mV to 374 mV	116 mV to 433 mV
Cold resistance at 0.1 x I_R		44 mΩ to 640 mΩ	13 mΩ to 550 mΩ	15 mΩ to 570 mΩ	14 mΩ to 660 mΩ
Climatic category (LCT/UCT/days)		55/125/56	55/125/56	55/125/56	55/125/56
Permissible continuous current rating at $\vartheta_{amb.}$ = 23 °C		0.7 x I_R	0.7 x I_R	0.7 x I_R	0.7 x I_R
Approval	UL recognition file	E253806	E253806	E253806	E253806
	IEC 60127-4	n/a	Refer to Table: MFU 0603 RATING		Refer to Table: MFU 1206 RATING

DIMENSIONS



DIMENSIONS - Chip Fuse types, mass and relevant physical dimensions							
TYPE	H (mm)	L (mm)	W (mm)	W_T (mm)	T_1 (mm)	T_2 (mm)	MASS (mg)
MFU 0402	0.32 ± 0.05	1.0 ± 0.05	0.5 ± 0.05	> 75 % of W	0.2 + 0.1/- 0.15	0.2 ± 0.1	0.65
MFU 0603	0.45 + 0.1/- 0.05	1.55 ± 0.05	0.85 ± 0.1	> 75 % of W	0.3 + 0.15/- 0.2	0.3 + 0.15/- 0.2	1.9
MFU 0805	0.45 + 0.1/- 0.05	2.0 ± 0.1	1.25 ± 0.15	> 75 % of W	0.4 + 0.1/- 0.2	0.4 + 0.1/- 0.2	4.7
MFU 1206	0.55 ± 0.1	3.2 + 0.1/- 0.2	1.6 ± 0.15	> 75 % of W	0.5 ± 0.25	0.5 ± 0.25	9.5

PART NUMBER AND PRODUCT DESCRIPTION MFU SERIES[1)]

PART NUMBER[2)]: **MFU0603FF01000PW00**

M	F	U	0	6	0	3	F	F	0	1	0	0	0	P	W	0	0

MODEL/SIZE	FUSE CHARACTERISTIC	RATED CURRENT VALUE	PACKAGING[3)]	SPECIAL
MFU0402 **MFU0603** **MFU0805** **MFU1206**	**FF** = Very Quick Acting	**Rated current value in mA.** **Examples:** 00500 = 0.5 A 01000 = 1.0 A 06300 = 6.3 A	**E1** **E5** **E0** **P1** **P5** **PW**	up to 2 digits **00** = standard

PRODUCT DESCRIPTION[4)]: **MFU 0603 -FF PW 1A0**

MFU	0603	-FF	PW	1A0
MODEL	SIZE	FUSE CHARACTERISTIC	PACKAGING[3)]	RATED CURRENT VALUE
MFU	**0402** **0603** **0805** **1206**	**FF** = Very Quick Acting	**E1** **E5** **E0** **P1** **P5** **PW**	**See Rating Tables** **Examples:** **0A5** = 0.5 A **1A0** = 1.0 A **6A3** = 6.3 A

Notes

1. Products can be ordered using either the PART NUMBER or the PRODUCT DESCRIPTION.
2. The PART NUMBER is shown to facilitate the introduction of a unified part numbering system.
3. Please refer to table PACKAGING.
4. We recommend that the PRODUCT DESCRIPTION is used to minimize the possibility of errors in order handling.

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