

## 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

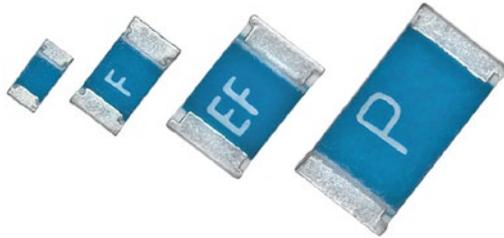
- Information technology
- Industrial electronics
- Automotive electronics
- Telecommunication
- Medical equipment
- Audio/video electronics

### RESOURCES

- Datasheet: MFU Series - <http://www.vishay.com/doc?28747>
- For technical questions contact [fuse@vishay.com](mailto:fuse@vishay.com)



## SMD Chip Fuse for Secondary Over-Current Protection



MFU Thin Film 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.

### FEATURES

- Advanced thin film technology
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Green product, supports lead (Pb)-free soldering
- Halogen-free according to IEC 61249-2-21 definition
- Compliant to RoHS Directive 2011/65/EU



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

### APPLICATIONS

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

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

TECHNICAL SPECIFICATIONS				
DESCRIPTION	MFU 0402	MFU 0603	MFU 0805	MFU 1206
Metric size	1005M	1608M	2012M	3216M
Rated current range $I_R$	0.5 A to 3.15 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 $1 \times I_R$	90 mV to 368 mV	85 mV to 361 mV	98 mV to 374 mV	116 mV to 433 mV
Cold resistance at $0.1 \times I_R$	22 mΩ to 560 mΩ	13 mΩ to 550 mΩ	15 mΩ to 570 mΩ	14 mΩ to 660 mΩ
Permissible film temperature, $\vartheta_{F max.}$	125 °C			
Operating temperature range	- 55 °C to 125 °C			
Permissible continuous current rating at $\vartheta_{amb} = 23 \text{ °C}$	$0.7 \times I_R$			
Approval UL recognition file	E253806			
Approval IEC 60127-4	n/a	Refer to table: MFU 0603 RATING		Refer to table: MFU 1206 RATING
FIT <sub>observed</sub>	$\leq 0.2 \times 10^{-9}/h$			

Revision 01-Sep-11

Fuses - Quick Acting Fuse Characteristics