PRODUCT SPECIFICATION

MINIATURE 0603 SIZE LOW CURRENT LGA ACCU-GUARD® THIN FILM FUSES

FEATURES

- Accurate current rating
- Fast acting
- Standard 0603 chip size
- Color coded
- Taped and reeled
- RoHS compliant
- UL Approval: E141069

APPLICATIONS

- Cellular telephones
- Two-way radios
- Computers
- Battery chargers
- Rechargeable battery packs
- Hard disk drives
- PDA's
- LCD screens
- Digital and Video cameras
- Instrumentation

TERMINATION

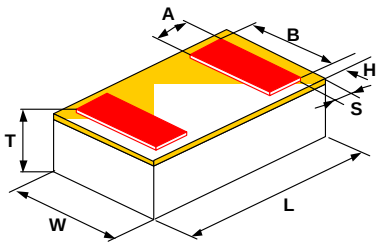
Nickel/Solder coating compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

ELECTRICAL SPECIFICATIONS

Operating temperature: -55ºC to +125ºC
Current carrying capacity:
-55ºC to -11ºC 107% of rating
-10ºC to +60ºC 100% of rating
+61ºC to +100°C 85% of rating
+101ºC to +125°C 80% of rating
Rated voltage: 32V
Post-fusing resistance: >1MΩ

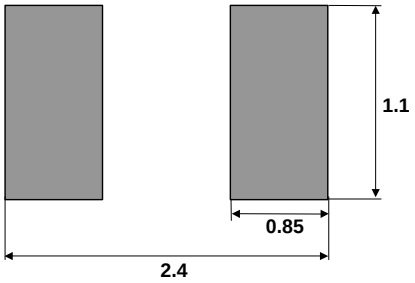
DIMENSIONS mm (inches)

Bottom View



L	1.6±0.1 (0.063±0.004)
W	0.81±0.1 (0.032±0.004)
T	0.61±0.1 (0.024±0.004)
A	0.23±0.05 (0.009±0.002)
B	0.66±0.05 (0.026±0.002)
S, H	0.10±0.05 (0.004±0.002)

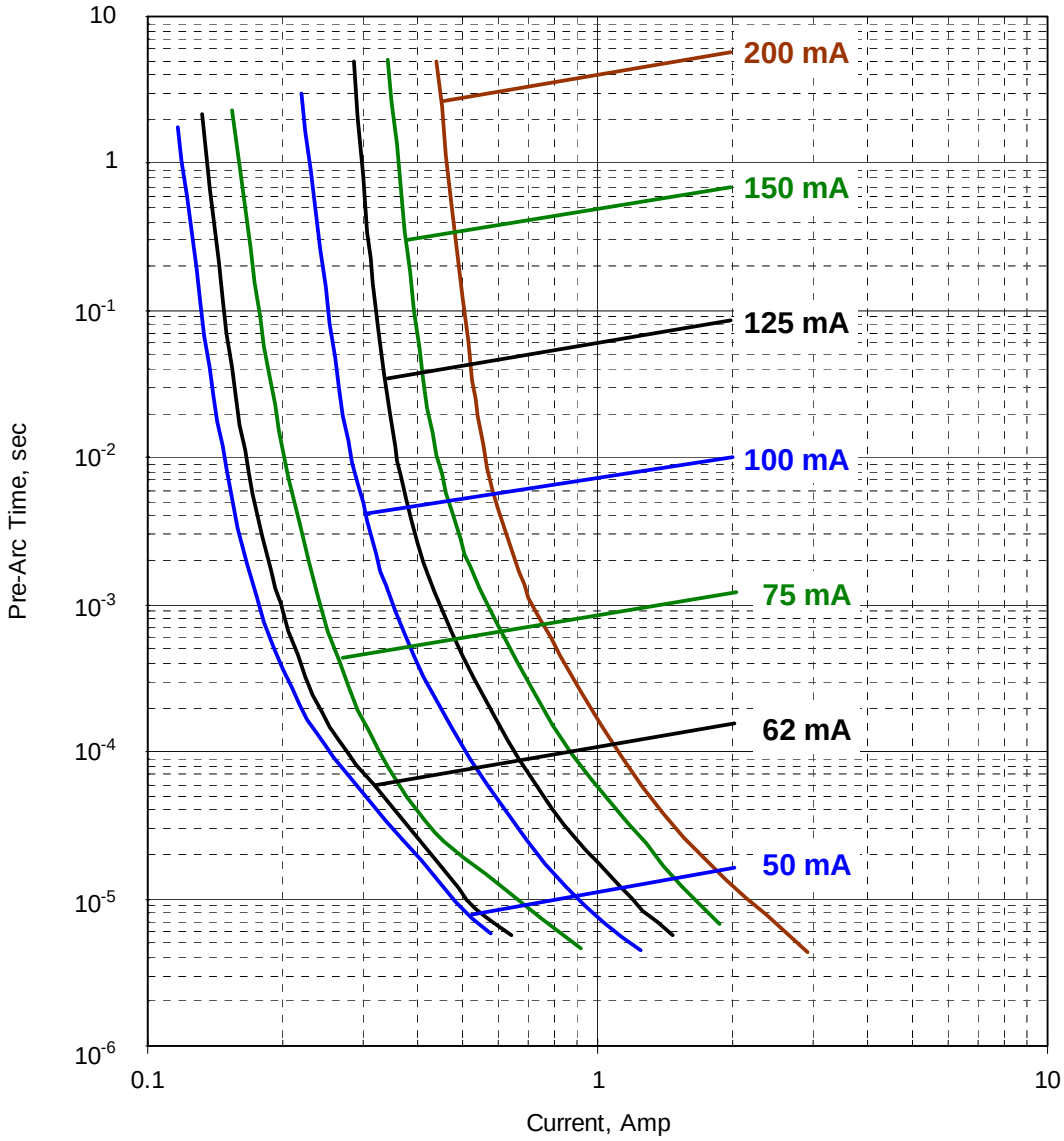
RECOMMENDED PAD LAYOUT DIMENSIONS mm (inches)



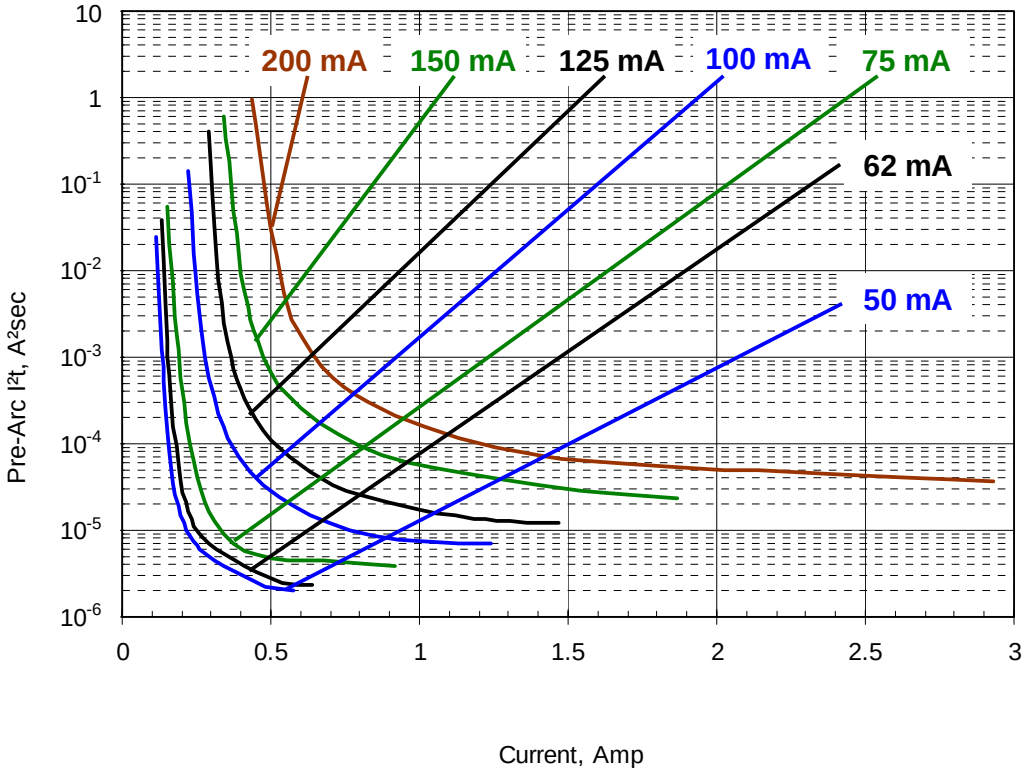
ELECTRICAL CHARACTERISTICS

Part Number	Current Rating A	Resistance @0.1x I_{RATED} Ω (max)	Voltage Drop @I_{RATED} mV (max)	Fusing Current (within 5 sec) A	Pre-Arc I^2t @10xI_{RATED} A^2-sec (typ)	Color Code
F0603G0R05FNTR	0.050	3.4	250	0.125	2×10^{-6}	Blue
F0603G0R06FNTR	0.062	2.5	280	0.155	2×10^{-6}	Yellow
F0603G0R07FNTR	0.075	2.0	280	0.1875	4×10^{-6}	Brown
F0603G0R10FNTR	0.100	2.4	300	0.250	7×10^{-6}	Red
F0603G0R12FNTR	0.125	1.6	250	0.312	1×10^{-5}	White
F0603G0R15FNTR	0.150	1.2	220	0.375	2×10^{-5}	Green
F0603G0R20FNTR	0.200	0.8	210	0.500	4×10^{-5}	Pink

FUSE TIME –CURRENT CHARACTERISTICS (Typical)



FUSE PRE-ARC JOULE INTEGRALS vs. CURRENT



FUSE PRE-ARC JOULE INTEGRALS VS. PRE-ARC TIME (Typical)

