

**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: -55°C to +125°C  
 Current carrying capacity:  
   -55°C to -11°C   107% of rating  
   -10°C to +60°C   100% of rating  
   +61°C to +100°C   85% of rating  
   +101°C to +125°C   80% of rating

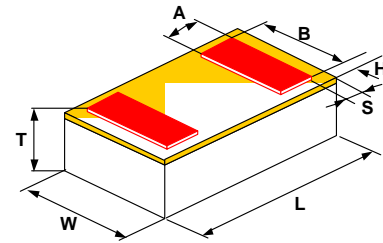
Rated voltage: 32V  
 Post-fusing resistance: >1MΩ

**ELECTRICAL CHARACTERISTICS**

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

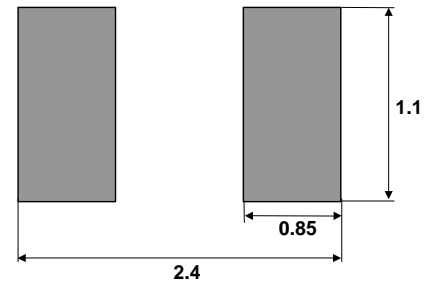
**DIMENSIONS mm (inches)**

**Bottom View**

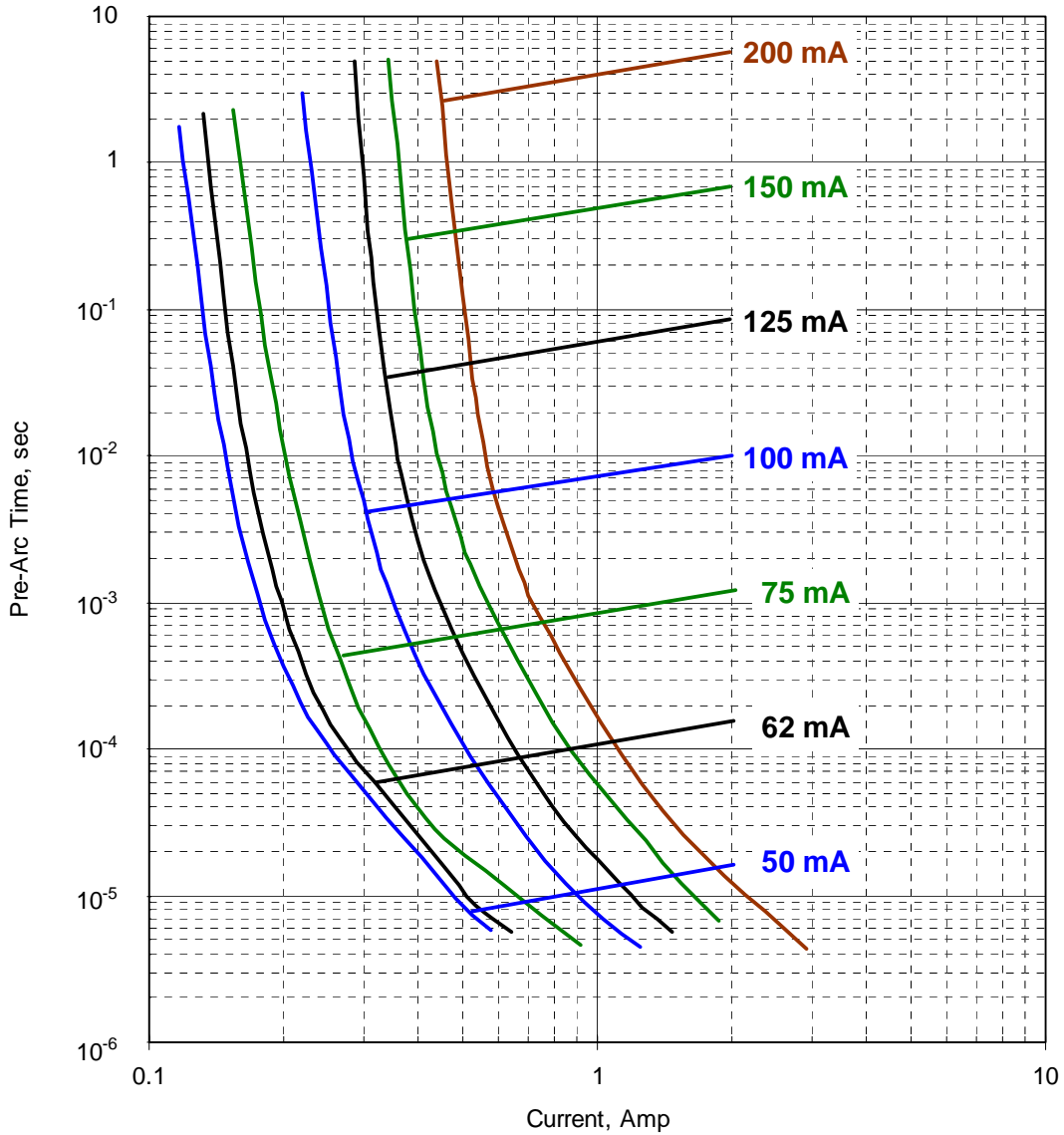


L	1.6±0.1 (0.063±0.004)
W	0.81±0.1 (0.032±0.004)
T	0.61±0.1 (0.024±0.004)
A	0.23±0.05 (0.009±0.002)
B	0.66±0.05 (0.026±0.002)
S, H	0.10±0.05 (0.004±0.002)

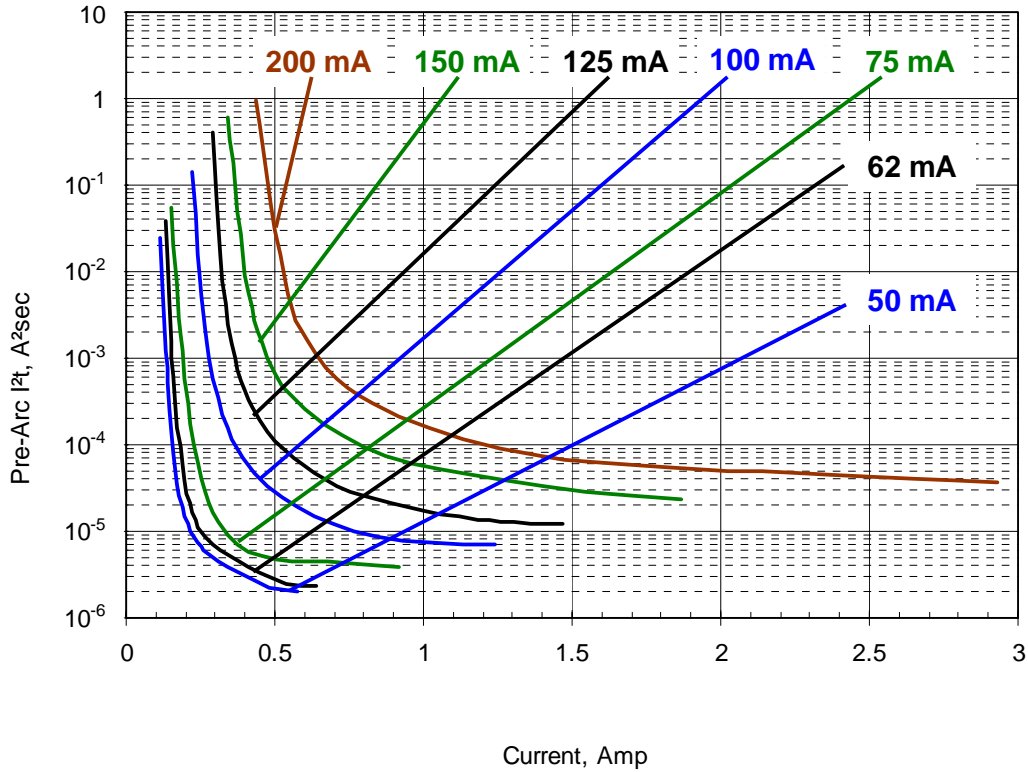
**RECOMMENDED PAD LAYOUT  
DIMENSIONS mm (inches)**



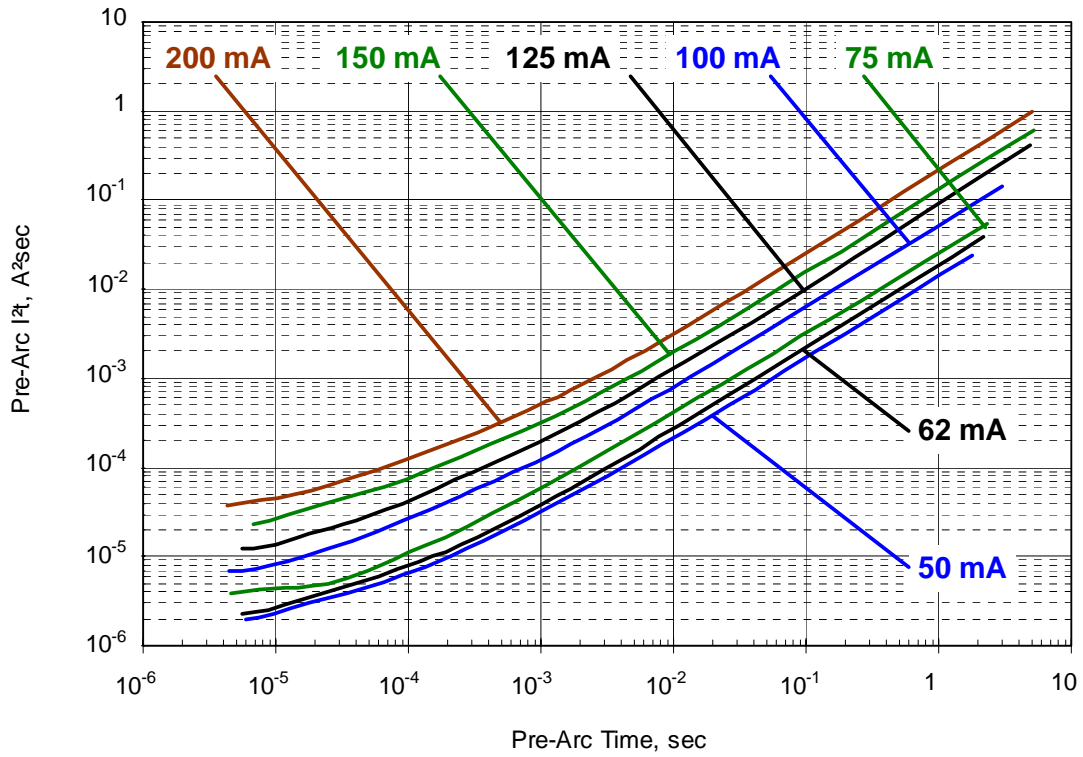
**FUSE TIME -CURRENT CHARACTERISTICS**  
**(Typical)**



**FUSE PRE-ARC JOULE INTEGRALS vs. CURRENT**



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



# Mouser Electronics

Authorized Distributor

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[F0603G0R07FNTR](#) [F0603G0R15FNTR](#) [F0603G0R02FNTR](#)