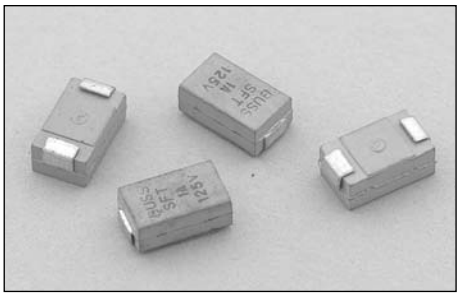
COOPER Bussmann

SMD TRON® Surface Mount Fuses

SFT Series

Description

- Fast Acting Surface Mount Fuse
- Solid matrix design encapsulated in a 94V-O thermoplastic body
- Copper Leads with a tin/lead finish
- Fuses marked with catalog symbol, ampere rating, and voltage rating



ELECTRICAL CHARACTERISTICS	
% of Amp Rating	**Opening Time**
100%	4 Hours Minimum
200%	60 Seconds Maximum
250%	5 Seconds Maximum

Agency Information

- UL Recognition Guide and File numbers: JDYX2 & E19180 (0-10A, 12.5A AC only)
- CSA Certification Record No: Class #1422-01, File #53787

Environmental Data

- Resistance to Solder Heat: MIL-STD-202F, Method B
- Vibration: MIL-STD-202F, Method 204 Test Condition A

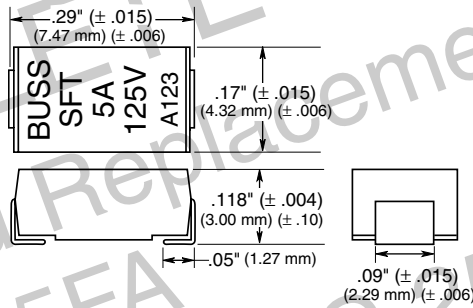
Soldering Method

- Wave Immersion: 260°C, 10 sec max
- IR Reflow: 260°C, 30 sec max

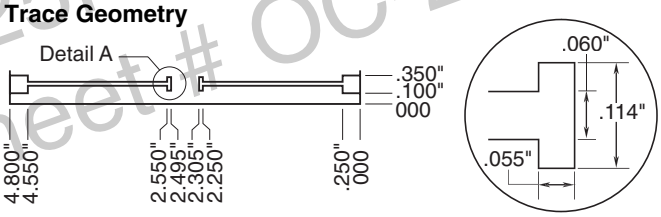
Ordering

- Specify product code and packaging code

Dimensional Data



Trace Geometry



OBSOLETE
Recommended Replacement
6125FA
See Data Sheet # OC-2531

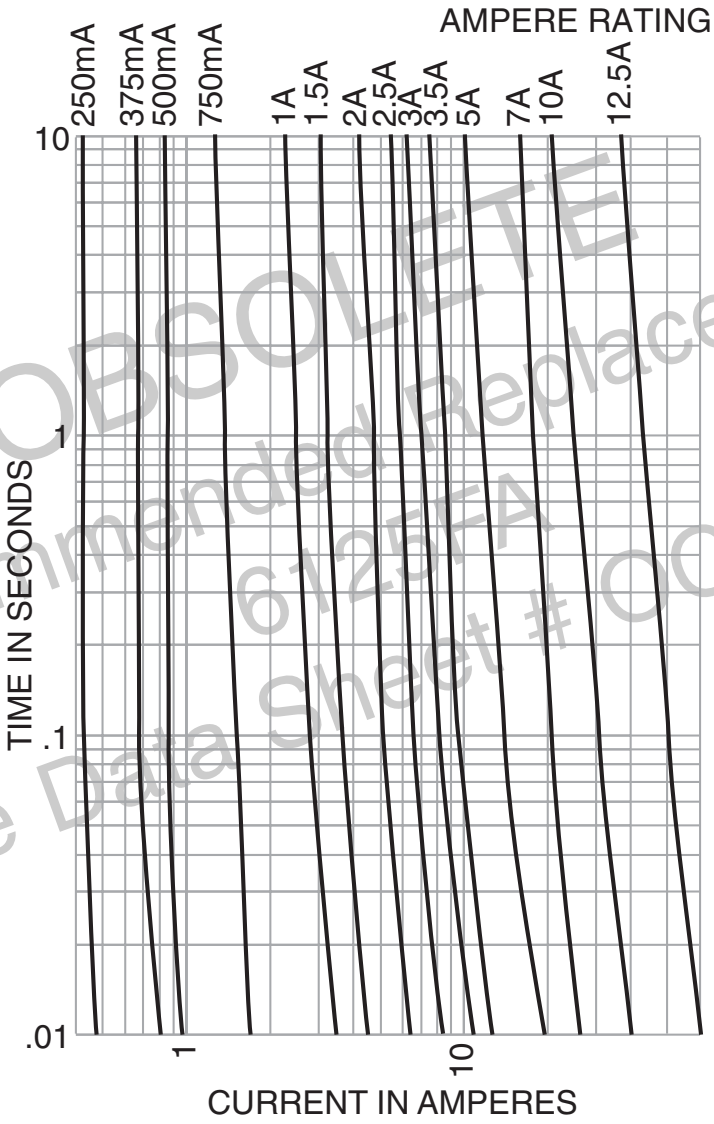
Electrical Characteristics

Product Code	Rated Voltage		Interrupting Rating[1]		Pre-arcing I^2T (A^2sec)		Typical Total Clearing[3] I^2T (A^2sec)		Typical Voltage Drop[2] Volts at 100% Rated Current
	AC (Max.)	DC (Max.)	AC	DC	AC	DC	AC	DC	
SFT-63mA	125V	125V	50A	300A					
SFT-125mA	125V	125V	50A	300A					
SFT-250mA	125V	125V	50A	300A	7.49×10^{-5}	5.1×10^{-6}	2.0×10^{-4}	6.29×10^{-6}	.8
SFT-375mA	125V	125V	50A	300A	3.17×10^{-4}	2.18×10^{-5}	4.18×10^{-4}	2.67×10^{-5}	.75
SFT-500mA	125V	125V	50A	300A	4.46×10^{-4}	3.8×10^{-5}	5.74×10^{-4}	4.63×10^{-5}	.66
SFT-750mA	125V	125V	50A	300A	1.72×10^{-3}	2.27×10^{-4}	2.59×10^{-3}	2.77×10^{-4}	.525
SFT-1	125V	125V	50A	300A	.0099	.0069	.0114	.0076	.12
SFT-1.5	125V	125V	50A	300A	.0302	.0204	.0345	.0246	.20
SFT-2	125V	125V	50A	300A	.0784	.0651	.0891	.0811	.170
SFT-2.5	125V	125V	50A	300A	.1775	.1390	.2383	.1574	.145
SFT-3	125V	125V	50A	300A	.3355	.2419	.4359	.2664	.130
SFT-3.5	125V	125V	50A	300A	.4980	.3812	.6355	.4696	.155
SFT-4	125V	125V	50A	300A	.8855	.6785	1.0740	.7829	.135
SFT-5	125V	125V	50A	300A	1.7264	1.2912	2.3779	1.3556	.125
SFT-7.0A	60V	90V	50A	300A	1.64	.518	1.97	.573	.114
SFT-10.0A	60V	90V	50A	300A	3.79	1.06	3.92	1.67	.130
SFT-12.5A	48V	60V†	50A	300A	15	4.04	20	4.28	.090

† NOTE: SFT 12.5A is UL recognized on AC Only.

1. Interrupting ratings were measured at 100% power factor on AC, and a time constant less than 1ms on DC.
2. Voltage drop was measured at 25°C ± 3°C ambient temperature at rated current with device mounted on a circuit trace.
3. I^2t measured at 50 amp, 125 VAC, .95PF, random closing angle; 300 amps, 125 VDC, TC<1ms.
4. Device designed to carry 100% of rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

Time-Current Characteristic Curves–Average Melt
(Full Size Curves Available)



OBSOLETE
Recommended Replacement
6125FA
See Data Sheet # OC-2531

PACKAGING CODE	
Packaging Code	**Description**
Blank	10 pieces
TR	500 pieces of fuses on 16mm tape-and-reel on a 7 inch reel per EIA Standard 481

Visit us on the web at:
www.CooperET.com

OC-2591 7/05

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