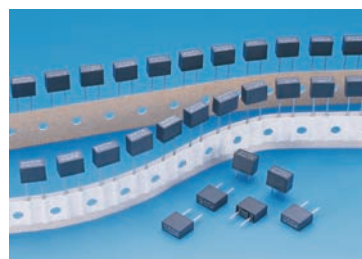


Type VF393

Fast Acting Radial Lead Micro Fuse Series



Catalog Number	Ampere Rating [In]	Voltage Rating (V)	Nominal Resistance Cold Ohms	Voltage Drop (mv) MAX	Nominal Melting I ² t A ² Sec
VF393 .050	50mA	250V or less	4.1971	850	0.000322
VF393 .063	63mA		2.8021	750	0.000794
VF393 .080	80mA		1.7102	650	0.002561
VF393 .100	100mA		1.6722	600	0.005003
VF393 .125	125mA		1.0005	550	0.006253
VF393 .160	160mA		0.8294	500	0.007686
VF393 .200	200mA		0.5207	480	0.024006
VF393 .250	250mA		0.5016	440	0.043754
VF393 .315	315mA		0.3823	400	0.059535
VF393 .400	400mA		0.2607	370	0.080002
VF393 .500	500mA		0.2473	350	0.083004
VF393 .630	630mA		0.1462	320	0.119005
VF393 .800	800mA		0.1042	300	0.192003
VF393 001	1A		0.0801	280	0.300004
VF393 1.25	1.25A		0.0582	280	0.468703
VF393 1.60	1.6A		0.0408	250	0.896002
VF393 002	2A		0.0335	240	1.200002
VF393 2.50	2.5A		0.0228	200	2.500006
VF393 3.15	3.15A		0.0177	180	3.969002
VF393 004	4A		0.0150	160	26.00004
VF393 005	5A	0.0108	150	15.00002	
VF393 6.30	6.3A	0.0075	130	47.62803	

■ Approval

Recognized Component for Canada and U.S.	50mA~6.3A
TUV	100mA~6.3A
CCC	100mA~6.3A

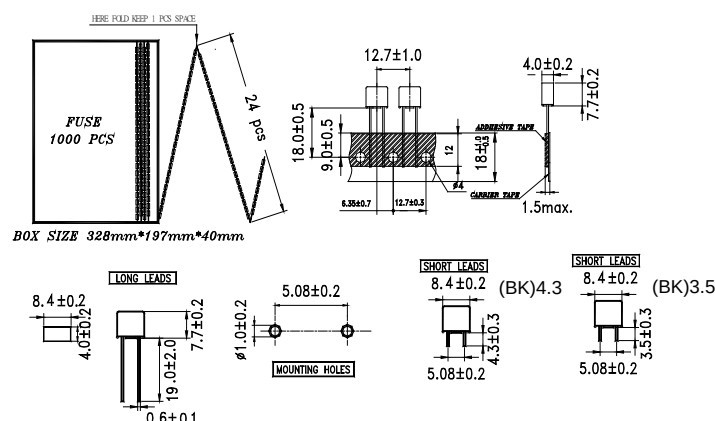
■ Electrical Characteristic

Rated Current	1.5In 2.1In		2.75In		4 In		10 In
	MIN	MAX	MIN	MAX	MIN	MAX	MAX
50mA~5A	60 min	30 min	10 ms	3 sec	3 ms	300 ms	25 ms
6.3 A	60 min	30 min	50 ms	10 sec	5 ms	400 ms	25 ms

■ Interrupting Rating

50mA-6.3A 130A 250V AC
50A 250V AC

■ Mechanical Dimension



Physical Specification

Materials

Base and Cap: Black thermoplastic, UL 94-V0

Round Pins: Copper, Tin-plated

Packaging

1. In bulk: 1,000 pcs per box.
2. On Tap: Ammo pack, 1,000 pcs box

■ Environmental Specification

Operating Temperature

-55°C to +125°C

Vibration

MIL-STD-202G, Method 201(10-55 Hz x 3axis/no load)

Salt Spray

MIL-STD-202G, Method 101, Test Condition B (48Hrs)

Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A
(After Opening) 10,000 ohms minimum

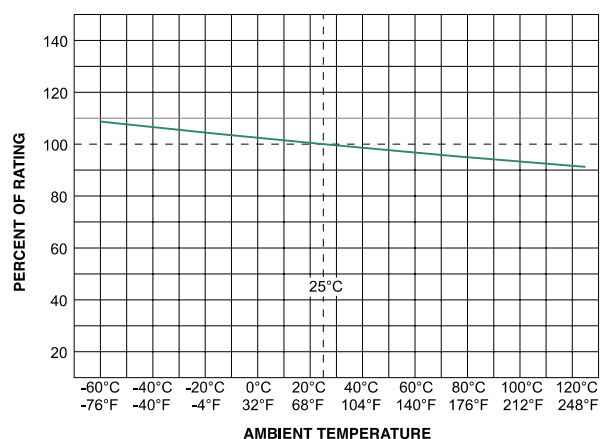
Resistance to Solder Heat

MIL-STD-202G, Method 210, Test Condition B
(10sec, at 260°C)

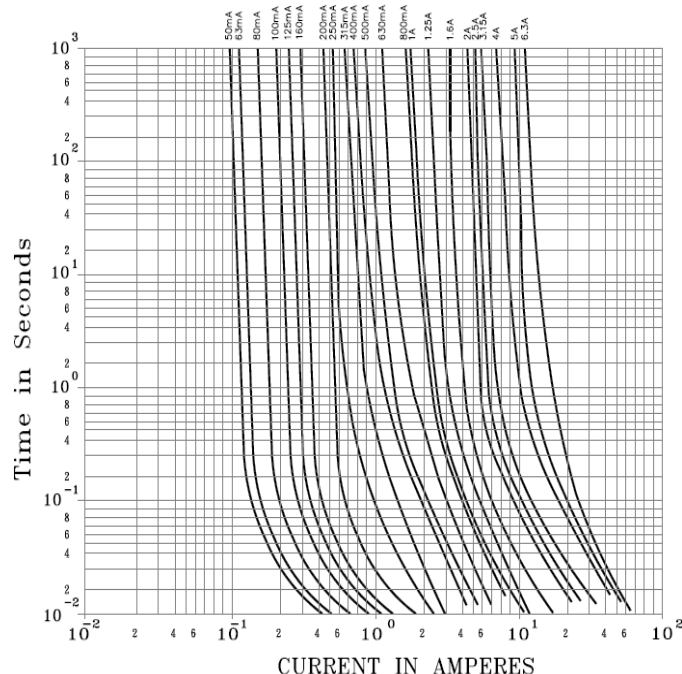
Thermal Shock:

MIL-STD-202G, Method 107, Test Condition B
(-65°C to +125°C)

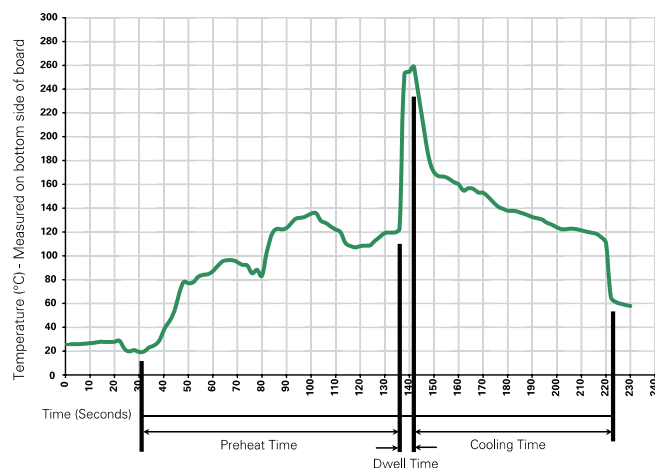
Temperature Derating Curve



Average Time Current Curves



Soldering Parameters



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	
	260° C Maximum
Solder Dwell Time:	
	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5°C
Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

Part Numbering System

