

Type VF215/VF215-P

50X20mm



Time-Lag High Breaking Capacity



VF215

VF215-P



Catalog Number	Ampere Rating [In]	Voltage Rating (V)	Nominal Resistance Cold Ohms	Voltage Drop (mv)MAX	Nominal Melting I ² t A ² Sec
VF215/VF215-P.040	40mA	250V AC or less	15.893	3300	0.0159
VF215/VF215-P.050	50mA		15.112	3000	0.0208
VF215/VF215-P.063	63mA		14.521	2900	0.0212
VF215/VF215-P.080	80mA		13.066	2800	0.0243
VF215/VF215-P.100	100mA		12.105	2600	0.0325
VF215/VF215-P.125	125mA		11.423	2600	0.0410
VF215/VF215-P.160	160mA		7.0502	2400	0.0474
VF215/VF215-P.200	200mA		1.8521	2100	0.3391
VF215/VF215-P.250	250mA		1.2560	1500	0.5424
VF215/VF215-P.315	315mA		0.8912	1100	0.9811
VF215/VF215-P.400	400mA		0.5613	1000	1.4210
VF215/VF215-P.500	500mA		1.1908	850	0.5610
VF215/VF215-P.630	630mA		0.7632	650	0.6432
VF215/VF215-P.800	800mA		0.4721	500	0.9810
VF215/VF215-P001	1A		0.1560	350	1.5340
VF215/VF215-P1.25	1.25A		0.1095	300	3.2150
VF215/VF215-P1.60	1.6A		0.0692	200	8.8534
VF215/VF215-P002	2A		0.0577	190	11.870
VF215/VF215-P2.50	2.5A		0.0401	180	22.375
VF215/VF215-P3.15	3.15A		0.0280	140	44.010
VF215/VF215-P004	4A		0.0188	100	55.123
VF215/VF215-P005	5A		0.0142	100	67.352
VF215/VF215-P6.30	6.3A		0.0103	100	134.26
VF215/VF215-P008	8A		0.0098	100	210.35
VF215/VF215-P010	10A		0.0067	100	333.61
VF215/VF215-P012	12A	0.0059	100	625.24	
VF215/VF215-P015	15A	0.0028	100	1285.0	
VF215/VF215-P016	16A	0.0030	100	1506.0	
VF215/VF215-P020	20A	0.0023	100	2610.0	
VF215/VF215-P025	25A	0.0018	100	3375.0	

Cold resistance test method: test the metal copper caps on the inside ends of the fuses with a milliohmmeter at 25 ° c room temperature.

Approval

Recognized Component for Canada and U.S.	40mA~25A
TUV	100mA~20A
CCC	100mA~10A
CQC	12.5A~20A

Electrical Characteristic

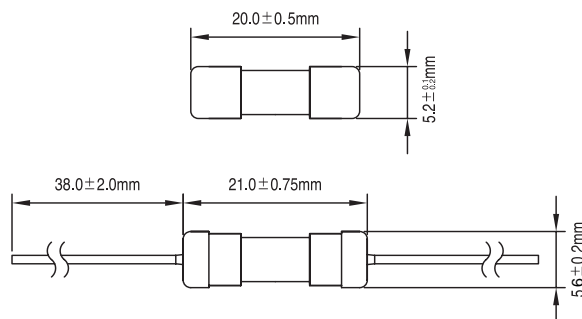
Rated Current	1.5In		2.1In		2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
40mA	60	30	250	80	50	5	5	150		
~800mA	min	min	ms	sec	ms	sec	ms	ms		
1A~3.15A	60	30	750	80	95	5	10	150		
	min	min	ms	sec	ms	sec	ms	ms		
4A~6.3A	60	30	750	80	150	5	10	150		
	min	min	ms	sec	ms	sec	ms	ms		
8A~25A	30	30	750	80	150	5	10	150		
	min	min	ms	sec	ms	sec	ms	ms		

Environmental Temperature at 25°C

Interrupting Rating

40mA~16A : 1500 amperes at 250V AC
 20A~25A: 300 amperes at 250V AC

Mechanical Dimension



Physical Specification

Material

Ceramic body / Nickel Plated Brass Caps
 Lead Wire:
 Diameter Ø0.8mm 12A and less.
 Diameter Ø1.0mm for rating above 15A.

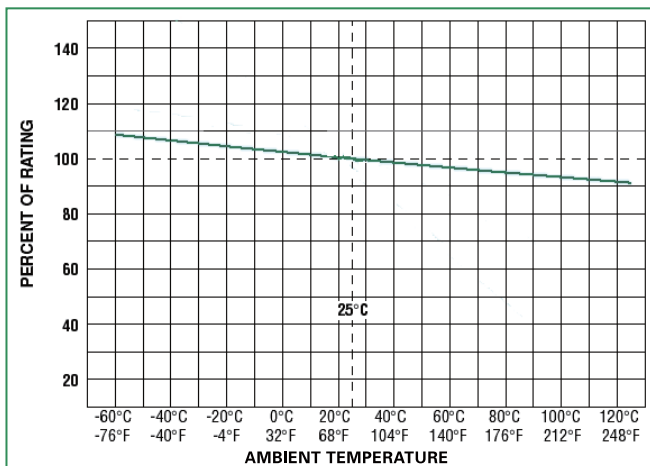
Packaging

In Bulk:
 VF215 - 500 pcs ; VF215-P - 300 pcs per box

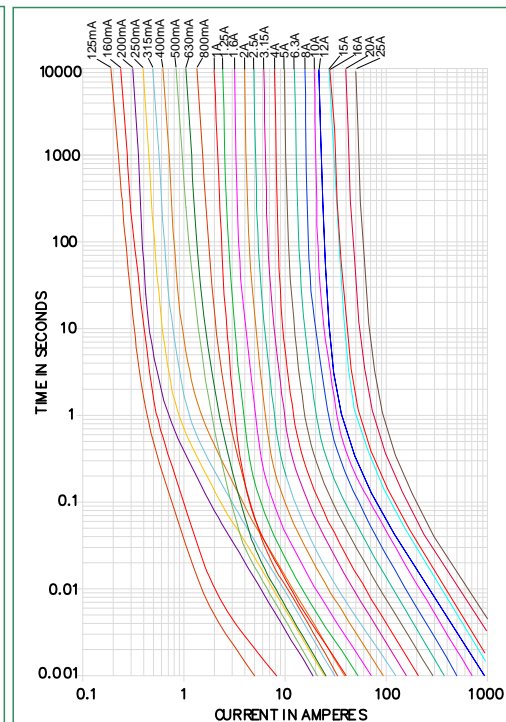
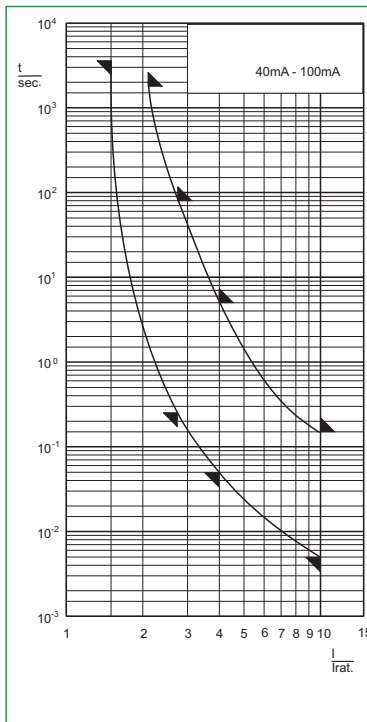
Environmental Specification

Operating Temperature -55°C to +125°C

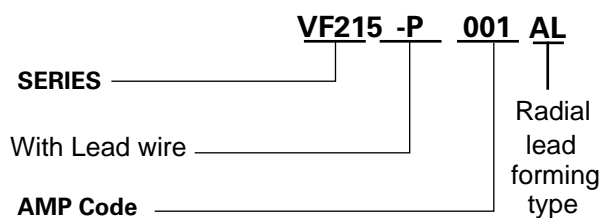
Temperature Derating Curve



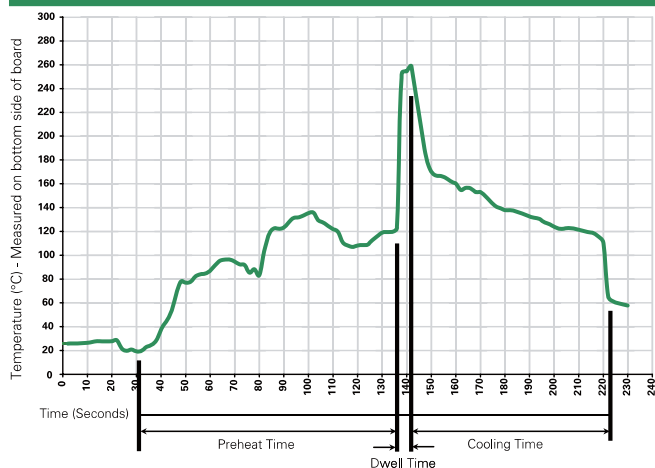
Average Time Current Curves



Part Numbering System



Soldering Parameters



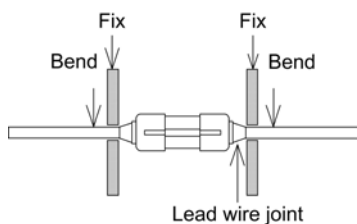
When forming by hand

○ Correct

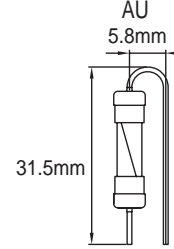
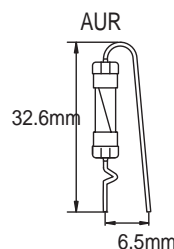
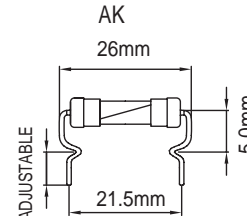
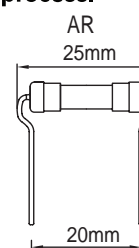
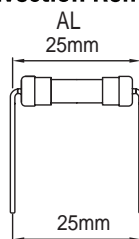
× Incorrect



When forming with forming dies



For reference only



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature) (Typical Industry Recommendation)	
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.